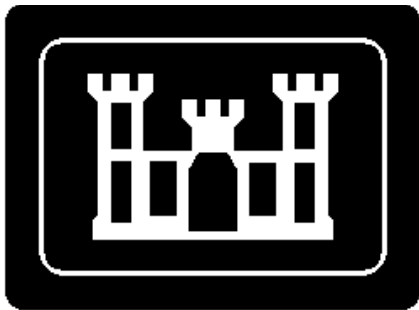


RCRA FACILITY INVESTIGATION REPORT

FOR

**FH-009 (Sanitary Landfill 9)
FORT HOOD, TEXAS**

PREPARED FOR
**U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT**



CONTRACT NO. DACA63-96-D-0021

May 24, 2000

**RCRA Facility Investigation Report
For
Site FH-009 (Abandoned Sanitary Landfill 9)**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District
Fort Worth, Texas**

**Under Contract Number
DACA63-96-D-0021**

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May 24, 2000

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ACRONYMS

AA	Atomic Absorption
BEG	Bureau of Economic Geology
BGS	Below Ground Surface
CDAP	Chemical Data Acquisition Plan
CQAR	Chemical Quality Assessment Report
DPW	Directorate of Public Works
DQO	Data Quality Objective
EM	Electromagnetic
ft	Feet or Foot
GC/MS	Gas Chromatography/Mass Spectrometry
ICP	Inductively Coupled Plasma
IDW	Investigation Derived Waste
LCS	Laboratory Control Samples
MCL	Maximum Contaminant Level
msl	Mean Sea Level
MS/MSDs	Matrix Spike/Matrix Spike Duplicate
ppb	Parts Per Billion
ppm	Parts Per Million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RRS	Risk Reduction Standards
SAIC	Science Applications International Corporation
SVOC	Semivolatile Organic Compound
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TNRCC	Texas Natural Resource Conservation Commission
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This report describes the collection and analysis of data from Solid Waste Management Unit (SWMU) FH-009 (Abandoned Sanitary Landfill 9), one of the 35 SWMUs investigated during the RCRA Facility Investigation (RFI) conducted at Fort Hood, Texas during November 1996 through March 1997. Additional investigation at this unit was conducted in April 1998 through June 1998. FH-009 is approximately 8 acres in size and was a trench-type landfill primarily used for municipal solid wastes. The landfill reportedly operated prior to 1972 and was covered with approximately 6 inches of soil at the time of closure (USACE 1995). The primary objective of investigation at FH-009 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill.

Soil and groundwater sampling was performed at FH-009 during installation of borings and piezometers. Historical data and visual observations of the site delineate the physical boundary of the landfill. To determine if further action is needed to address environmental conditions at FH-009, data has been evaluated using a two-part screening process according to guidance in the Texas Natural Resource Conservation Commission (TNRCC) Risk Reduction Standards [RRS (TAC 335 Subchapter S)].

Results of FH-009 surface and subsurface soil analyses inside and outside of the landfill indicate no presence of VOCs or SVOCs above risk screening criteria. No inorganic constituents were detected in surface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was the only inorganic constituent detected in subsurface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was detected outside of the landfill at two locations at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. However, statistical results have shown that arsenic concentrations at FH-009 are not significantly different from background arsenic concentrations. This information indicates that arsenic in subsurface soil does not pose a risk at FH-009. No other constituents were detected above background or risk screening criteria in subsurface soils at FH-009.

Based on descriptions from soil boring logs, groundwater collected within the landfill was from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation on the landfill surface, rather than from a groundwater aquifer. No inorganic constituents, VOCs or SVOCs were detected above screening criteria in perched groundwater inside of the landfill or in groundwater outside of the landfill at FH-009. Therefore, with respect to these investigation results, FH-009 landfill is determined to contain typical sanitary landfill materials with no occurrence of migration of contamination from the landfill.

In summary, the unit is operating as intended, and no further action is necessary. Fort Hood will continue to assure that landfill FH-009 is maintained and managed in a manner which does not compromise the integrity of the unit and nearby environs.

1.0 INTRODUCTION

Fort Hood is an active U.S. Army installation occupying 217,551 acres (339 square miles) in southern Coryell and Bell Counties in central Texas. It is situated 60 miles north of Austin, and about 50 miles south of Waco. The installation is located north of and adjacent to the city of Killeen, east of and adjacent to the city of Copperas Cove, and four miles south of the city of Gatesville. A vicinity map is shown in Figure 1.1.

Fort Hood began operations in 1942. Robert Gray Air Field, originally operated by the Air Force as Robert Gray Air Force Base, was established in 1947 (U. S. Army 1996a). Fort Hood's mission is training, testing, and deployment of military personnel and equipment. The post is commanded by the III Corps Commander. Currently, the post supports two full divisions (the 1st Cavalry and 4th Infantry Divisions). Forty-three thousand military personnel are stationed there; and an additional 30,000 family members, civilians, volunteers, and private-sector employees also live or work at Fort Hood (U.S. Army 1996b). Among the military assets of Fort Hood are approximately 2,500 tracked vehicles, over 11,000 wheeled vehicles, six fixed wing aircraft, and 230 rotary-wing aircraft. The post has 67 active firing and demolition ranges.

The Fort Hood military reservation is regulated under the Resource Conservation and Recovery Act (RCRA) as a hazardous waste management facility. Fort Hood has a RCRA permit to operate three hazardous waste storage units. The RCRA permit requires that Fort Hood perform a RCRA Facility Investigation (RFI) for 40 solid waste management units (SWMUs) listed in the permit. These SWMUs are distributed across the military reservation, in the main cantonment, West Fort Hood, and North Fort Hood. They include former solid waste landfills and burial sites, former and inactive underground storage tank locations, active wash rack/sewer systems, effluent ponds, and a sanitary sewer network. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-009 (Abandoned Sanitary Landfill 9), one of the 35 SWMUs investigated during the RFI conducted November 1996 through March 1997. Additional investigation at this unit was conducted in April through June 1998. SWMU FH-009 is located west of Clear Creek Road and between abandoned Landfills 6 and 10 and west of SWMU FH-008. A golf course is located to the west of the site.

1.1 BACKGROUND

SWMU FH-009, approximately 8 acres in size, was a trench-type landfill that reportedly operated prior to 1972. FH-009 is suspected to contain municipal solid wastes, as well as some construction and demolition debris, specifically concrete rubble. The landfill was covered with approximately 6 inches of soil at the time of closure (USACE 1995). No previous investigations have been performed at FH-009 to characterize the material in the landfill or determine if there has been a release of hazardous wastes from the landfill. Also, no site-specific geologic investigations are known to have been conducted for this site.

1.2 SCOPE AND OBJECTIVES

The primary objective of investigation at FH-009 was to characterize the material in the landfill and to determine if a release to the environment has occurred due to the presence of waste materials within the landfill. Sampling for the RFI focused on determining the concentrations of heavy metals and organics. The specific objectives of the investigation at this SWMU were as follows:

- determine the presence or absence of contaminants in the soils at the landfill;
- determine the lateral boundaries of the landfill and the vertical and lateral extent of soil

- contamination at the landfill, where practicable;
- determine if groundwater is present below the landfill and if present, determine if the groundwater is contaminated;
- characterize the migration potential of any contaminants identified in the soils beneath the landfill;
- obtain information about the local geological conditions at the landfill;
- evaluate the potential human health risks associated with contaminants detected in surface and subsurface soils; and
- determine what, if any, corrective measures are needed to address contamination associated with SWMU FH-009.

The approach to the RFI included field sampling and laboratory analysis of surface and subsurface soils, and groundwater at this SWMU. The initial sampling and analysis program was conducted in accordance with the Final RCRA Facility Investigation Work Plan, 35 Solid Waste Management Units, Fort Hood, Texas (Final RFI Work Plan [USACE 1995]). Additional sampling and analysis was performed in 1998 in accordance with approved Work Plan Modifications (approval letter from the Texas Natural Resource Conservation Commission [TNRCC] dated April 21, 1998).

Initial sampling of landfill units in 1997 at Fort Hood was conducted during a period of unusually high precipitation. It was documented at that time that these landfill units were either saturated or contained areas of perched water. Because the base of the landfills rests on the bedrock surface, there was a question as to what happens to the water contained within the landfills. To address this question, piezometers were proposed to be installed around the landfill units. Placement of piezometers was based on bedrock conditions and the depth at which water was encountered. Using this approach, four piezometers were installed at FH-009.

2.0 ENVIRONMENTAL SETTING

The material presented in this section describes the physical characteristics of SWMU FH-009 and its surroundings. The geology, physiography, and climate are presented using regional and site-specific data where available.

2.1 PHYSIOGRAPHIC SETTING

Fort Hood is located within the eastern edge of the Lampasas Cut Plains region of the North-Central Plains physiographic province. The topography of Fort Hood consists of small stream valleys separated by ridge-forming mesas. Relief is as great as 340 ft. The Black and Blackwell Mountains are prominent features north of the main cantonment, as are Seven Mile Mountain at West Fort Hood, and the Dalton Mountains southwest of North Fort Hood. A topographic map of the main cantonment of Fort Hood is provided in Figure 2.1.

Local relief on the main cantonment and at West Fort Hood is generally less than 100 ft, with flat to gently rolling topography. Elevations on the main cantonment range from 860 to 940 ft above mean sea level (msl). Elevations at SWMU FH-009 range from approximately 895 ft above msl at the western boundary of the site to approximately 910 ft above msl at the eastern boundary of the site.

The rivers, streams, and creeks that constitute the main surface water pathways at Fort Hood are shown on Figure 1.2. Fort Hood lies along a watershed divide between Belton Lake drainage basin and the Leon River. The western and north-central parts of the main cantonment are drained by Clear Creek, which discharges to House Creek. House Creek is a tributary to the eastward-flowing Cowhouse Creek, which discharges to Belton Lake, a man-made reservoir. South Nolan Creek and North Nolan Creek both originate on Fort Hood and flow eastward to the Leon River, below Belton Lake.

2.2 GEOLOGIC CONDITIONS

A summary of the geology of the Fort Hood area relevant to this RFI is adapted from the Final RFI Work Plan (USACE 1995).

2.2.1 Bedrock

Lower Cretaceous marine sedimentary rocks make up the stratigraphy underlying Fort Hood. The Fredericksburg Group consists of several stratigraphic units. The Walnut Formation is the lowermost unit of the Fredericksburg Group and is the dominant stratigraphic unit in the main cantonment. It consists of shales with interbedded limestone, chalky nodular limestone, and shell aggregates. The fossiliferous Walnut Formation is exposed in many locations at Fort Hood. It varies in thickness from 100 to 150 ft (Bureau of Economic Geology [BEG] 1979). The Commanche Peak Formation and an undifferentiated unit overlie the Walnut Formation, but are present at the surface only north of the main cantonment in the Black and Blackwell Mountains, and on West Fort Hood on Seven Mile Mountain. Bedrock dips gently to the southeast throughout the area. Inactive faults are present in the subsurface to the east of Fort Hood along the Balcones Fault Zone, which runs through Bell, McLennan, and Hill Counties.

2.2.2 Unconsolidated Materials

Alluvial deposits of Quaternary age are present along stream valleys on the main cantonment, specifically along South Nolan Creek on the southern edge of the cantonment (USACE 1995). It is suspected that much alluvium and other natural surface deposits have been reworked throughout the active life of Fort Hood during construction projects.

2.3 CHARACTERIZATION OF SOILS

In many areas of the main cantonment, silty or sandy clay soils overlie bedrock. During the April 1998 investigation, differentiation between the unconsolidated soil and the underlying bedrock was made by the difference in color. During the previous field investigation it had been noted that the uppermost tan colored limestone and gravelly silty clays were more weathered than the underlying blue-gray limestone/limey-shales. It was ascertained that the tan color is evidence of the weathering processes occurring close to the surface of the ground. In upland areas, these unconsolidated soils consisted of silty clay with abundant rock fragments (weathered fossiliferous limestone and chert nodules) with weathered laminations of shale and limestone. In general, these soils have low permeabilities (U.S. Department of Agriculture [USDA] 1985a,b). Because soils have been extensively reworked for construction and landfilling in the SWMUs that were investigated, it is difficult to apply the USDA classification to the soils encountered on the main cantonment.

2.4 CHARACTERIZATION OF CLIMATE

The climate of the Fort Hood-Killeen area can be characterized as semi-arid continental. Winters (December-March) are mild, with the average daily maximum temperature in January (the coldest month) reaching 60 degrees Fahrenheit (°F). Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature range is 42 to 62° F. At times, strong northerly winds accompanied by sharp drops in temperature occur during the winter months. Summers (June-September) are hot and dry. The average daily maximum temperature in August, the hottest month, reaches 95.9° F. The normal daily temperature range for summer is 75 to 95° F. The average daily temperature in Killeen is 68.1° F.

Average annual rainfall in the Killeen area is 30.4 inches, and is most concentrated from September to May (U.S. Army 1996b). Snowfall is rare. The average annual humidity in the region is 55 percent. Total rainfall for 1996 at Fort Hood was 26.7 inches. Severe weather in the form of heavy rain, hailstorms, and ice storms is common in the winter months.

3.0 UNIT CHARACTERIZATION

SWMU FH-009 is an abandoned sanitary landfill that has been covered with native soil. Local relief at FH-009 is approximately 15 ft, ranging in elevation from approximately 895 ft above msl along the western boundary to 910 ft above msl at the eastern boundary. SWMU FH-009 is approximately 8 acres in size. The surface area of the landfill is vegetated with grass, small scrub brush, and small to medium-sized trees. The site slopes to the west towards an unnamed tributary of Clear Creek that drains the site. The trench method of disposal reportedly operated prior to 1972. Aerial photographs from the mid-1970s were discovered during data collection activities for this RFI. Based on these photographs, trench orientation generally appears to be east-northeast to west-southwest. A review of the boring logs indicates the landfill is on top of bedrock. Shallow bedrock conditions are found throughout the Fort Hood area and the landfill construction technology of that era typically placed landfills on top of the bedrock. Also, based on landfill boundaries supported by aerial photographs and Base Information Mapping, it was determined that no geophysical investigation was necessary at FH-009.

Precipitation has been allowed to pond on the landfill and infiltrate into it. Soil boring log descriptions from this RFI indicate that water samples collected from locations within the landfill boundary were from perched water zones rather than from a groundwater aquifer. A water sample could only be collected from one of the five soil borings advanced during this RFI due to noncontiguous saturated conditions in the landfill. Based on this information and best professional judgement, water within the landfill is from perched water zones and not from a groundwater aquifer.

The landfill was constructed in native soil and reportedly contains municipal solid wastes and some construction and demolition debris, specifically concrete rubble. The municipal solid wastes include wastes from residential households, commercial facilities, and light industrial facilities. Specific types of debris identified during drilling activities at FH-009 and identified on soil boring logs (see Appendix A) include trash, plastic, glass, metal and wood. Photographs of the site were taken in January 1999 and are presented in Figure 3.1.

4.0 CHARACTERIZATION OF UNIT CONTAMINATION

The following sections describe the results of field activities and analytical procedures performed to achieve site specific objectives defined in Section 1.2 of this report.

4.1 TECHNICAL APPROACH

Two sampling events were conducted at FH-009. The first took place from January to March 1997 and all samples were collected from within the landfill boundary, in accordance with the approved Final RFI Work Plan (USACE 1995). A second sampling event occurred in April through June 1998. Piezometers were placed around the perimeter of the landfill to determine if any contaminants detected in the landfill have migrated through the soil or groundwater beyond the boundaries of the landfill. At FH-009, terrain conditions required the placement of some piezometers just inside the surveyed landfill limits, but outside of suspected areas of disposal.

Both surface (0 - 2 ft BGS) and subsurface soils (> 2 ft BGS) were sampled at FH-009. Different soil depths were sampled in order to provide data necessary to evaluate the potential human health risks associated with contaminants at the site and to better characterize the potential extent of contamination present in different soil strata. Contaminant concentrations will vary based on soil depth due to the chemical nature of the contaminant and the method by which the contaminant is deposited in the soil (i.e., spills, leaks, and atmospheric deposition). Concentrations at the surface of the soil may differ greatly from subsurface levels. In addition, analysis of different soil levels is necessary to accurately evaluate the human health risks associated with the contaminants. Exposures based on surface or direct contact will differ from exposure, if any, associated with contaminants in deeper soils. Combining surface and subsurface data may result in a database that is not truly representative of actual exposure at the site. At FH-009 direct contact with surface soils is more likely than contact with deeper soils.

Groundwater was sampled from soil borings advanced inside the landfill and from piezometers outside or near the boundaries of FH-009 to determine if leaching of contaminants from soils to groundwater has occurred. Sample identifications and associated analyses for all soil and groundwater samples collected at FH-009 are summarized in Table 4.1.

4.1.1 Soil Sampling Investigation

The locations of the sampling points at FH-009 are shown in Figure 4.1. All subsurface soil borings were drilled using a truck-mounted hollow-stem auger rig. Soil samples from subsurface borings were collected using a 5-foot continuous downhole sampling device. Downhole, breathing zone, and headspace organic vapors were monitored during sampling activities. All initial soil sampling, sample handling, chain-of-custody, and other field activities were conducted in January and March 1997 in accordance with the Final RFI Work Plan (USACE 1995) and the Chemical Data Acquisition Plan (USACE 1997 [CDAP]). During formulation of the RFI Work Plan, it was believed that unconsolidated material existed below the depth of the landfills at Fort Hood. Soil samples were originally to be collected from depths above and below the landfill, but during initial sampling activities, it was discovered that the landfill material rested on bedrock, which prohibited the collection of subsurface soil samples beneath the depth of the landfill. Some subsurface soil samples could not be collected due to the lack of recovery in the split spoon, mostly because of the boring being drilled through trash. Only subsurface soil samples were collected during the installation of piezometers. Soil sampling conducted during installation of piezometers during April and May 1998 was in accordance with the Final RFI Work Plan (USACE 1995) and Work Plan Modifications (TNRCC, April 21, 1998). Following sampling activities, all soil borings were closed in accordance with applicable requirements.

Surface soils and subsurface soils were sampled in January and March 1997 at FH-009 during advancement of five subsurface soil borings (SB101 through SB105). In addition, four piezometers (PZ101 through PZ104) were advanced, and subsurface soils were sampled in April 1998 to determine if contamination has migrated beyond the horizontal and vertical boundaries of the landfill. All soil samples collected during installation of soil borings and piezometers were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. The boring logs for FH-009 are provided in Appendix A.

Two piezometers (PZ101 and PZ103) were installed within the unconsolidated material overlying the bedrock, and two piezometers (PZ102 and PZ104) were installed within the bedrock. The two piezometers in the unconsolidated material are to determine direction of groundwater flow in the perched water above the bedrock and the two piezometers in the bedrock are to determine the groundwater flow in the bedrock. Blue-gray bedrock was encountered at a depth of approximately 25 to 26 ft BGS on the northeastern boundary of the landfill in piezometer PZ101 and boring SB101. Along the northern boundary of the landfill, the blue-gray bedrock was encountered at a depth of 15 ft BGS in piezometer PZ104. In the western area of the landfill, the blue-gray bedrock was encountered at a depth of 13 to 17 ft BGS in piezometers PZ102 and PZ103. In the center of the landfill area, the blue-gray bedrock was encountered at depths ranging from 17 to 25 ft BGS in borings SB102, SB103, and SB104. The blue-gray limestone and shale bedrock was overlain by yellow silty clays containing weathered limestone fragments. Landfill debris, including trash, plastic, glass, metal, and wood, was encountered in borings SB101, SB102 and SB105.

4.1.2 Groundwater Sampling

Groundwater samples were collected in January 1997 when groundwater was encountered during installation of the soil borings. Groundwater samples were also collected in June 1998 from newly installed piezometers. Groundwater was collected and analyzed in accordance with the Final RFI Work Plan (USACE 1995), Work Plan Modifications (TNRCC, April 21, 1998) and CDAP. Upon completion of the RFI, all piezometers will be abandoned in accordance with applicable requirements and abandonment reports will be submitted to the TNRCC.

Groundwater was collected from only one of the soil borings installed at FH-009 (SB105). No groundwater sample was able to be collected from borings SB101, SB102, SB103 and SB104 due to noncontiguous saturated conditions in the landfill. Groundwater was also collected and analyzed from two piezometers installed within the unconsolidated material, PZ101 and PZ103. PZ102 and PZ104 are both bedrock piezometers and were dry at the same time that the unconsolidated piezometers (PZ101 and PZ103) had enough water to take a sample. This indicates that there may be perched water above the bedrock. Groundwater samples were analyzed for VOCs, SVOCs, and metals.

4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS

Analytical results for soils at SWMU FH-009 (validated data and laboratory result forms) are provided in their entirety in Appendix B. Tables 4.2 and 4.3 summarize constituents detected above practical quantitation limits (PQLs) in soil and groundwater, respectively. The constituents detected above PQLs were screened against background and risk-based screening criteria as described in Section 4.3 and Section 5.0.

4.2.1 Surface Soil Analytical Results

All surface soil analyte results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in surface soils include: arsenic (2.7 parts per million [ppm] at SB102 to 4.2 ppm at SB104), barium (7.8 ppm at SB105 to 50 ppm at SB103), cadmium (0.1 ppm at SB103 to 0.15 ppm at SB105), chromium (4J ppm at SB101 to 11.5J ppm at SB103 and SB104) and lead (3.2 ppm at SB105 to 8.7 ppm at SB104).

Acetone was the only VOC detected above PQLs in surface soils in the FH-009 samples. Acetone was detected at SB103 and SB104 at concentrations of 17 parts per billion [ppb] and 63 ppb, respectively. No other VOCs or SVOCs were detected at FH-009 locations in surface soils.

4.2.2 Subsurface Soil Analytical Results

All subsurface soil analyte results above PQLs are presented in Table 4.2. Inorganic constituents detected above PQLs in subsurface soils include: arsenic (2.5 ppm at SB105 to 11.7 ppm at PZ104), barium (2.6 ppm at SB103 to 29.2 ppm at PZ102), cadmium (0.14 ppm at SB105 to 0.2 ppm at SB101), chromium (1.6J ppm at SB102 to 19 ppm at PZ102) and lead (2.2 ppm at SB105 to 15.4 ppm at PZ104).

VOCs detected above PQLs in subsurface soils in the FH-009 samples include: acetone and methylene chloride. Acetone was detected in eight samples at five locations with concentrations ranging from 11 ppb at SB103 to 46 ppb at SB102 and SB104. Methylene chloride was detected at SB102 and SB103 at concentrations of 8 ppb and 6 ppb, respectively. No other VOCs and no SVOCs were detected at FH-009 locations in subsurface soils.

4.2.3 Groundwater Analytical Results

Table 4.3 presents all of the groundwater analytical results above PQLs. Inorganic constituents detected above PQLs in groundwater at FH-009 include: arsenic (1.4 ppb at SB105), barium (15.8 ppb at SB105, 44.6 ppb at PZ101, and 113 ppb at PZ103), chromium (15.8 ppb at PZ103), lead (7.9 ppb at PZ103) and silver (2.2 ppb at PZ103). No VOCs or SVOCs were detected above PQLs in groundwater in the FH-009 samples.

4.2.4 Disposition of Investigation Derived Waste (IDW)

All IDW generated during drilling at FH-009 was stored in 55-gallon drums. All drums were clearly identified with the drum's contents, the date they were filled, and the SWMU where the IDW was generated. Drums were staged in the Science Applications International Corporation (SAIC) compound pending disposition. Analytical results from the corresponding soil samples were used to determine whether a drum=s contents were non-hazardous or potentially hazardous. Contaminant levels were screened against the RCRA A20 times@ rule for the Toxicity Characteristic Leaching Procedure (TCLP). Provisions were made for TCLP sampling of any solid IDW drums that did not meet the A20 times@ criteria. When a site soil sample concentration for a hazardous constituent was twenty times or greater than its respective leachate concentration listed in 30 TAC Chapter 335, Subchapter R, Appendix 1, Table 1, a sample was collected. All solid IDW determined to be non-hazardous by this method was transported to the Fort Hood Sanitary Landfill for disposal. All solid IDW determined to be potentially hazardous was delivered to the Fort Hood Directorate of Public Works (DPW) Classification Unit with the accompanying characterization data.

All solid IDW at FH-009 was placed in seventeen 55-gallon drums and was determined to be non-hazardous. The solid IDW was then transported to the Fort Hood Sanitary Landfill for disposal. All liquid IDW generated for this SWMU resulted from the decontamination of the drilling rig and other sampling equipment and well development/purge water and was placed in nine 55-gallon drums. Liquid IDW was determined to be non-hazardous and was disposed of in the 1st Calvary Division Tactical Vehicle Wash Facility. The drums containing the non-hazardous liquid are expected to contain a significant amount of sediment. For this reason, disposal at the 1st Calvary Division Tactical Vehicle Wash Facility was determined to be more appropriate than discharging the liquid to the sanitary sewer system. The Vehicle Wash Facility is a closed loop system consisting of three ponds used to settle out the dirt and sediment washed off the armored vehicles.

4.3 BACKGROUND CHARACTERIZATION AND COMPARISONS WITH WASTE UNIT SAMPLING RESULTS

In order to characterize naturally occurring constituents in soils at Fort Hood, samples were located and collected at 10 separate locations within the facility boundaries in the north, west, and main cantonments. Sampling locations are believed to be outside the influence of past or current industrial and/or waste activities at the facility. The general background sampling locations are presented in Figure 4.2. Background soils data and soil boring logs are presented in Appendices C and D, respectively.

Samples were analyzed for the following metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. There were only 40 valid background sample results for selenium due to quality assurance/quality control (QA/QC) problems with the selenium data. A discussion of the data QA/QC is presented in Section 6.1. Mercury was detected in only 1 of 43 soil samples and selenium in 2 of 40 background samples. Silver was not detected in any background soil samples.

Two statistical methods presented in the Final RFI Work Plan (USACE 1995) can be used to determine if there is a statistically significant difference between background soil concentrations and the concentrations of metals detected in SWMU samples. Background statistical calculations were determined by combining metal results from surface soils (0-2 ft) and subsurface soils (>2 ft). The statistical methods used to evaluate the background soil results are presented in Section 6 of the Final RFI Work Plan (USACE 1995). The methods include a 95% upper tolerance limit (UTL) calculation and an overall data set mean background concentration. The 95% UTL is an estimate of the 95th percentile of the population of background concentrations. The UTL is a value such that, with a high degree of confidence, 95% of all concentrations would be less than the UTL value. Results of the 95% UTL calculation are presented in Table 4.4. For inorganic parameters where the distribution was neither normal nor lognormal and where there were less than 50% detects, the maximum concentration detected was used in place of the 95% UTL. For inorganic parameters where there were no detects in the background samples, the PQLs were used in place of the 95% UTLs as the background comparison value. The 95% UTL background value for soils was used as the primary background screening criteria for inorganics.

The second statistical method to be used is either a mean comparison using the t-test, or the Wilcoxon (Mann-Whitney) Test. The use of these tests is dependent on the distribution of the data set. The t-test is to be used on data sets that have a normal distribution or that can be transformed to a normal distribution. According to the Final RFI Work Plan (USACE 1995), if the data set is not normally distributed and the t-test is not appropriate, a nonparametric method, the Wilcoxon Test, is to be used to test the difference in the background versus the data set. The flow chart from the Final RFI Work Plan (USACE 1995) used for the statistical evaluations is provided in Appendix E. Results of calculations for the 95% UTLs, means, standard deviations, and the Wilcoxon Test for FH-009 data are also presented in Appendix E.

Arsenic was detected in soil at FH-009 at concentrations greater than the 95% UTL soil background concentration, therefore, further statistical analysis was performed for this metal. The Wilcoxon Test for arsenic detected in soil at FH-009 resulted in an absolute Z value of 1.35 versus the critical Z value of 1.645 for a one-tailed test. This indicates there is no significant difference between the background soil arsenic data and FH-009 soil arsenic data. Further discussion of statistical results is included in Section 6.2 (Investigation Results) of this report.

5.0 SCREENING ANALYSIS

The TNRCC has promulgated Risk Reduction Standards (30 TAC 335, Subchapter S) for soils and groundwater for residential and industrial land uses. Risk Reduction Standards (RRSs) Number 1 are defined as background concentrations or analytical PQL values, whichever are greater. RRSs Number 2 are health-based standards and criteria that are deemed protective of human health or the environment. The TNRCC RRSs have been used to screen the data generated at FH-009 to determine whether or not constituents are present at the site at concentrations which may warrant further investigation.

The TNRCC RRSs Number 1 are used to determine if there are hazardous constituents at a SWMU that could result from a potential release. Soil sample results were compared to the 95% UTL background concentration levels or PQLs. Background soil levels were determined for eight metals and the results are presented in Section 4.3. Metals detected above background levels and organic constituents above PQLs are considered to be a potential release from the unit. Organic constituents in soils reported above the analytical PQL were then screened against the TNRCC RRSs Number 2 (30 TAC 35 Industrial Soil GWP). TNRCC RRSs Number 2 values are deemed protective of human health and are based on an ingestion of soil and inhalation of particulates and volatiles pathway and a soil-to-groundwater cross-media protection pathway. In most cases for inorganics, the 95% UTL background concentration is greater than the TNRCC RRS Number 2 value and thus, the background concentration is used in the screening process. Appendix F provides a tabulation of detected results and the screening criteria used for comparison. Table 5.1 shows analytes detected above screening criteria in soil.

5.1 SURFACE SOIL SCREENING

No inorganic constituents were detected above screening criteria in surface soils at FH-009. To determine if the concentrations of VOCs and SVOCs detected at FH-009 warrant further action, sample results were screened against the TNRCC RRS Number 2 criteria for these constituents. Organic parameters detected above PQLs in surface soils at FH-009 were presented in Section 4.2.1. No organic parameters were detected above TNRCC RRS Number 2 criteria in surface soils at FH-009. Complete results of the surface soil screening analysis are presented in Appendix F.

5.2 SUBSURFACE SOIL SCREENING

Arsenic was the only inorganic constituent detected in subsurface soil at a concentration above the 95% UTL background criteria. Arsenic was detected outside of the landfill at PZ102 and PZ104 at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. No other inorganic or organic constituents were detected above background values or screening criteria in subsurface soils from samples collected at FH-009. Complete results of the subsurface soil screening analysis are presented in Table 5.1 and in Appendix F.

5.3 GROUNDWATER SCREENING

No inorganic constituents were detected at concentrations above corresponding maximum contaminant levels (MCLs) in groundwater at FH-009. No organic constituents were detected above TNRCC RRSs Number 1 and 2 values in groundwater at FH-009. Results of the groundwater screening analysis are presented in Appendix F.

6.0 INVESTIGATION ANALYSIS

6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL

The Fort Hood RFI Work Plan, the contract laboratory's Quality Assurance Plan, and U.S. Environmental Protection Agency (USEPA) SW-846 or other approved procedures for analytical chemistry and physical testing methods were followed for field and laboratory QA/QC of FH-009 samples. According to the Work Plan, QA and QC samples were to be collected at a frequency of ten percent and analyzed along with the environmental samples. Field QC samples for FH-009 included trip blanks and equipment rinsate blanks. Quality control analyses such as matrix spikes, blanks, and laboratory control samples were conducted by the contract laboratory as an internal control measure of the accuracy and precision of the data. Quality assurance sample analyses were performed by the Army Corps of Engineers' Southwest District Laboratory as an external control measure of the accuracy and precision of the contract laboratory's results and of sampling procedures. The QA/QC and corresponding field sample results are reviewed by Army Corps of Engineers quality assurance personnel, who then issue a Chemical Quality Assurance Report (CQAR).

Laboratory QC procedures as prescribed by each analytical method were followed by the contract laboratory and included where applicable: gas chromatography/mass spectrometry (GC/MS) tuning, initial and continuing calibrations, method/extraction blanks, laboratory control samples (LCS), surrogate spikes, internal and external standards, duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), inductively coupled plasma (ICP) and atomic absorption (AA) related QC procedures/samples, and spiked sample clean-up results.

The CQAR addressed concerns with the FH-009 data. Concerns included missing internal QC data (mainly MS/MSD results) and a trip blank that arrived at the laboratory with bubbles larger than 6mm. Other concerns were the potential for data to be biased (high or low) and the potential for false positives or negatives based on matrix spike and laboratory control spike deviations from QC criteria for a number of analytical parameters. The deviations did not lead to rejection or qualification of the data. Based on the CQAR findings, the data are usable and have met the project data quality objectives (DQOs).

Data QA/QC procedures included an independent data validation of ten percent of the results for compliance of analyses to DQOs. All FH-009 data that were reviewed for data validation met project DQOs and are usable data as qualified, with the exception of selenium results for 10 background soil samples (2 surface and 8 subsurface). The selenium results were rejected due to unacceptable matrix spike recoveries and were excluded from background calculations. The rejected background data had no impact on the FH-009 results.

6.2 INVESTIGATION RESULTS

The quality of the data set for soil and groundwater samples collected at FH-009 meets the objectives of the RFI as described in Section 1.2 of this report. Nineteen soil samples collected from nine soil locations and three groundwater samples collected during drilling activities and from newly installed piezometers were analyzed according to the Final RFI Work Plan (USACE 1995) and approved Work Plan Modifications (approval letter from the TNRCC dated April 21, 1998). The number and location of the samples were adequate to provide information regarding the presence/absence of contamination, the characterization of the vertical and lateral extent of potential contamination, and the boundaries of the suspected disposal area. A review of the boring logs indicate the landfill is on top of bedrock and visual observations of the site, as well as aerial photographs, delineate the physical boundary of the landfill. Precipitation has been allowed to pond on the landfill, and infiltrate into it. Based on descriptions from soil boring logs, the water that was collected inside the landfill was from perched water zones rather than from a groundwater aquifer.

Results of FH-009 surface and subsurface soil analyses inside and outside of the landfill indicate no presence of VOCs or SVOCs above risk screening criteria. Acetone and methylene chloride detected above PQLs in surface and subsurface soils are suspect because these constituents are common laboratory contaminants and were detected at low concentrations. No inorganic constituents were detected in surface soil inside or outside of the landfill at a concentration above the 95% UTL background criteria. Arsenic was the only inorganic constituent detected in subsurface soil outside of the landfill, or near the perimeter of the landfill, at a concentration above the 95% UTL background criteria. Arsenic was detected at PZ102 and PZ104 at concentrations of 11.6 ppm and 11.7 ppm, respectively. These concentrations are slightly above the background criteria of 9.2 ppm. However, statistical results using the Wilcoxon Test have shown that arsenic concentrations at FH-009 are not significantly different from background arsenic concentrations. Also, TNRCC has issued guidance on arsenic with preliminary action levels at 20 mg/kg (See Appendix G: TNRCC Background Criteria Memo). This information indicates that arsenic in subsurface soil does not pose a risk at FH-009. No other constituents were detected above background or risk screening criteria in subsurface soils at FH-009.

Based on descriptions from soil boring logs and sampling events, groundwater collected within the landfill was from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation on the landfill surface, rather than from a groundwater aquifer. No inorganic constituents, VOCs or SVOCs were detected above screening criteria in perched groundwater inside of the landfill or in groundwater outside of the landfill at FH-009.

Based on the results of visual inspection and soil analyses no releases or contamination have migrated outside of the landfill. Soil and groundwater sampling results, including visual inspection of landfill debris, indicate that the FH-009 landfill contains nothing other than typical sanitary landfill material. The parameters detected in samples collected at FH-009 can come from debris found in municipal solid waste landfills. The exact source of these constituents is not known, however, potential sources may include glass, paper products, plastics or breakdown products of these items. Therefore, with respect to these investigation results, FH-009 landfill is determined to have typical sanitary landfill materials with no occurrence of migration of contamination from the landfill. Section 7 discusses actions needed to maintain and improve the area inside of the FH-009 landfill.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The previous sections have discussed the results of the analyses of samples collected inside and outside the FH-009 landfill. In Section 6.2, a discussion of results indicates that contamination has not migrated from the landfill and that the landfill contains typical sanitary landfill materials. Constituents detected above PQLs within the landfill are typical of the expected landfill debris, the levels of detected constituents pose no threat to human health and the environment, and there has been no evidence identified which indicates constituents found within the boundary of the landfill have migrated outside of the landfill. The boring logs show the base of the landfill rests on bedrock. Based on the information in this RFI, the water samples collected from inside the landfill are from perched water zones formed by the temporary ponding and subsequent infiltration of precipitation rather than from a groundwater aquifer. Settling of the landfill surface causes the formation of troughs which become sites for ponding of water on the surface of the landfill. Fort Hood will continue to assure that landfill FH-009 will be maintained and managed in a manner which does not compromise the integrity of the unit and nearby environs. In summary, the unit is operating as intended, and no further action is necessary.

8.0 REFERENCES

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- U.S. Army. 1996a. Fort Hood 1996 Public Affairs Document. 72 p.
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- USEPA. SW-846 Test Methods for Evaluating Solid Waste. Physical/Chemical. Second Edition, Rev. 0, September, 1986, and Third Edition, Rev. 1, November 1990.
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TABLES

FH-009

Table 4.1 FH-009 Sample Identification and Analyses

Station	Sample ID	Matrix	Depth (ft)	Date Collected
PZ101	09PZ102	Groundwater	---	06/02/1998
	09SB116	Subsurface Soil	26.0-26.4	04/07/1998
PZ102	09SB117	Subsurface Soil	14.0-15.0	04/07/1998
PZ103	09PZ101	Groundwater	---	06/02/1998
	09SB118	Subsurface Soil	14.5-16.0	05/06/1998
PZ104	09SB119	Subsurface Soil	14.0-15.0	05/06/1998
SB101	09SB101	Surface Soil	0.0-1.0	01/08/1997
	09SB102	Subsurface Soil	14.5-16.0	01/08/1997
	09SB103	Subsurface Soil	24.5-25.5	01/08/1997
SB102	09SB109	Surface Soil	0.0-1.0	03/06/1997
	09SB110	Subsurface Soil	8.0-9.0	03/06/1997
	09SB111	Subsurface Soil	15.0-15.5	03/06/1997
	09SB112	Subsurface Soil	24.0-25.0	03/06/1997
SB103	09SB106	Surface Soil	0.0-1.0	03/05/1997
	09SB107	Subsurface Soil	14.0-15.0	03/05/1997
	09SB108	Subsurface Soil	24.0-25.0	03/05/1997
SB104	09SB113	Surface Soil	0.0-1.0	03/06/1997
	09SB114	Subsurface Soil	15.5-16.0	03/06/1997
	09SB115	Subsurface Soil	19.0-20.0	03/06/1997
SB105	09SB104	Surface Soil	0.0-1.0	01/09/1997
	09SB105	Subsurface Soil	10.5-11.0	01/09/1997
	FHW103	Groundwater	---	01/10/1997

Notes:

1. Groundwater was collected when encountered during installation of soil borings.
2. All samples were analyzed for VOCs, SVOCs, and metals.

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ101	09SB116	26.0-26.4	Metals	Arsenic	5.1	0.33	mg/kg
				Barium	7.4	0.06	mg/kg
				Chromium	9.8	0.07	mg/kg
				Lead	5.8	0.19	mg/kg
PZ102	09SB117	14.0-15.0	Metals	Arsenic	11.6	0.37	mg/kg
				Barium	29.2	0.07	mg/kg
				Chromium	19	0.08	mg/kg
				Lead	11.1	0.22	mg/kg
			Volatile Organics	Acetone	34	6	ug/kg
PZ103	09SB118	14.5-16.0	Metals	Arsenic	6.8	0.19	mg/kg
				Barium	3.8 J	0.14	mg/kg
				Chromium	3.4 J	0.08	mg/kg
				Lead	4.8	0.15	mg/kg
PZ104	09SB119	14.0-15.0	Metals	Arsenic	11.7	0.18	mg/kg
				Barium	16 J	0.13	mg/kg
				Chromium	15.2 J	0.08	mg/kg
				Lead	15.4	0.14	mg/kg
SB101	09SB101	0.0-1.0	Metals	Arsenic	3.6	0.39	mg/kg
				Barium	9.9	0.09	mg/kg
				Cadmium	0.14	0.05	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB101	09SB101	0.0-1.0	Metals	Chromium	4 J	0.09	mg/kg
				Lead	4.1 J	0.16	mg/kg
	09SB102	14.5-16.0	Metals	Arsenic	5.9	0.42	mg/kg
				Barium	19.6	0.10	mg/kg
				Cadmium	0.2	0.05	mg/kg
				Chromium	11.4 J	0.10	mg/kg
				Lead	6.7 J	0.18	mg/kg
	09SB103	24.5-25.5	Metals	Arsenic	4.5	0.37	mg/kg
				Barium	13.2	0.09	mg/kg
				Cadmium	0.17	0.04	mg/kg
				Chromium	5.8 J	0.09	mg/kg
				Lead	5.9 J	0.16	mg/kg
SB102	09SB109	0.0-1.0	Metals	Arsenic	2.7	0.38	mg/kg
				Barium	36 J	0.07	mg/kg
				Chromium	5.8 J	0.09	mg/kg
				Lead	5	0.22	mg/kg
	09SB110	8.0-9.0	Metals	Arsenic	4	0.41	mg/kg
				Barium	16.2 J	0.08	mg/kg
				Chromium	9.2 J	0.09	mg/kg
				Lead	5.9	0.24	mg/kg
			Volatile Organics	Acetone	29	6	ug/kg
				Methylene Chloride	8	6	ug/kg
	09SB111	15.0-15.5	Metals	Arsenic	3.5	0.39	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB102	09SB111	15.0-15.5	Metals	Barium	13.8 J	0.08	mg/kg
				Chromium	5.2 J	0.09	mg/kg
				Lead	5.4	0.23	mg/kg
			Volatile Organics	Acetone	12	6	ug/kg
	09SB112	24.0-25.0	Metals	Arsenic	5.7	0.33	mg/kg
				Barium	3.3 J	0.06	mg/kg
				Chromium	1.6 J	0.08	mg/kg
				Lead	4.8	0.19	mg/kg
			Volatile Organics	Acetone	46	5	ug/kg
	SB103	09SB106	0.0-1.0	Metals	Arsenic	3 J	0.38
Barium					50	0.07	mg/kg
Cadmium					0.1	0.06	mg/kg
Chromium					11.5 J	0.09	mg/kg
Lead					6.9 J	0.22	mg/kg
Volatile Organics				Acetone	17	6	ug/kg
09SB107		14.0-15.0	Metals	Arsenic	4.2 J	0.37	mg/kg
				Barium	11.2	0.07	mg/kg
				Chromium	6.6 J	0.08	mg/kg
				Lead	7 J	0.21	mg/kg
			Volatile Organics	Acetone	11	6	ug/kg
09SB108		24.0-25.0	Metals	Arsenic	4.7 J	0.33	mg/kg
				Barium	2.6	0.06	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB103	09SB108	24.0-25.0	Metals	Chromium	1.9 J	0.08	mg/kg
				Lead	3.3 J	0.19	mg/kg
			Volatile Organics	Acetone	36	5	ug/kg
				Methylene Chloride	6	5	ug/kg
SB104	09SB113	0.0-1.0	Metals	Arsenic	4.2	0.40	mg/kg
				Barium	45.7 J	0.08	mg/kg
				Chromium	11.5 J	0.09	mg/kg
				Lead	8.7	0.23	mg/kg
			Volatile Organics	Acetone	63	6	ug/kg
	09SB114	15.5-16.0	Metals	Arsenic	8.4	0.37	mg/kg
				Barium	16.3 J	0.07	mg/kg
				Chromium	6 J	0.08	mg/kg
				Lead	11.5	0.22	mg/kg
			Volatile Organics	Acetone	24	6	ug/kg
	09SB115	19.0-20.0	Metals	Arsenic	6.8	0.33	mg/kg
				Barium	3 J	0.06	mg/kg
				Chromium	2.1 J	0.07	mg/kg
				Lead	4.7	0.19	mg/kg
			Volatile Organics	Acetone	46	5	ug/kg
SB105	09SB104	0.0-1.0	Metals	Arsenic	3.7	0.37	mg/kg
				Barium	7.8	0.09	mg/kg

Table 4.2 FH-009 Analytes Detected in Soil Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
SB105	09SB104	0.0-1.0	Metals	Cadmium	0.15	0.04	mg/kg
				Chromium	4.3	0.09	mg/kg
				Lead	3.2	0.16	mg/kg
	09SB105	10.5-11.0	Metals	Arsenic	2.5	0.37	mg/kg
				Barium	15	0.09	mg/kg
				Cadmium	0.14	0.04	mg/kg
				Chromium	3.6	0.09	mg/kg
				Lead	2.2	0.16	mg/kg

J - Indicates estimated value

Table 4.3 FH-009 Analytes Detected in Groundwater Above Practical Quantitation Limits (PQLs)

Location	Sample ID	Depth	Analysis Type	Parameter	Result	PQL	Units
PZ101	09PZ102	--	Metals	Barium	44.6	0.60	ug/l
PZ103	09PZ101	--	Metals	Barium	113	0.60	ug/l
				Chromium	15.8	0.70	ug/l
				Lead	7.9	1.5	ug/l
				Silver	2.2	1.4	ug/l
SB105	FHGW103	--	Metals	Arsenic	1.4	0.30	ug/l
				Barium	15.8	2.5	ug/l

Table 4.4**Statistical Analysis of 95% UTL Concentrations Background Soils**

Analyte (units)	Mean	95% UTL	Maximum Detect	Results > PQL	Distribution
Arsenic (mg/kg)	4.3500	9.19	11.6	43/43	N
Barium (mg/kg)	30.19	157.3	155.0	43/43	L
Cadmium (mg/kg)	0.15	0.67	0.79	36/44	L
Chromium (mg/kg)	7.32	24.88	23.6	44/44	L
Lead (mg/kg)	5.77	19.0	33.20	44/44	L
Mercury (mg/kg)	0.0400	0.04*	0.04	1/44	D
Selenium (mg/kg)	0.345	0.44*	0.44	2/40	D
Silver (mg/kg)	0.218	**	ND	0/44	D

Results less than the detection limit were set to 2 the reported detection limit.

L distribution most similar to lognormal.

N distribution most similar to normal.

D distribution not determined because fewer than five detects or less than 50% detects.

* UTL -maximum detected

** the 95% UTL could not be calculated due to no detects in the background data set, therefore, the PQL will be used as the background comparison value. The PQL for silver in background samples ranges from 0.2 ppm to 0.25 ppm.

ND Not Detected

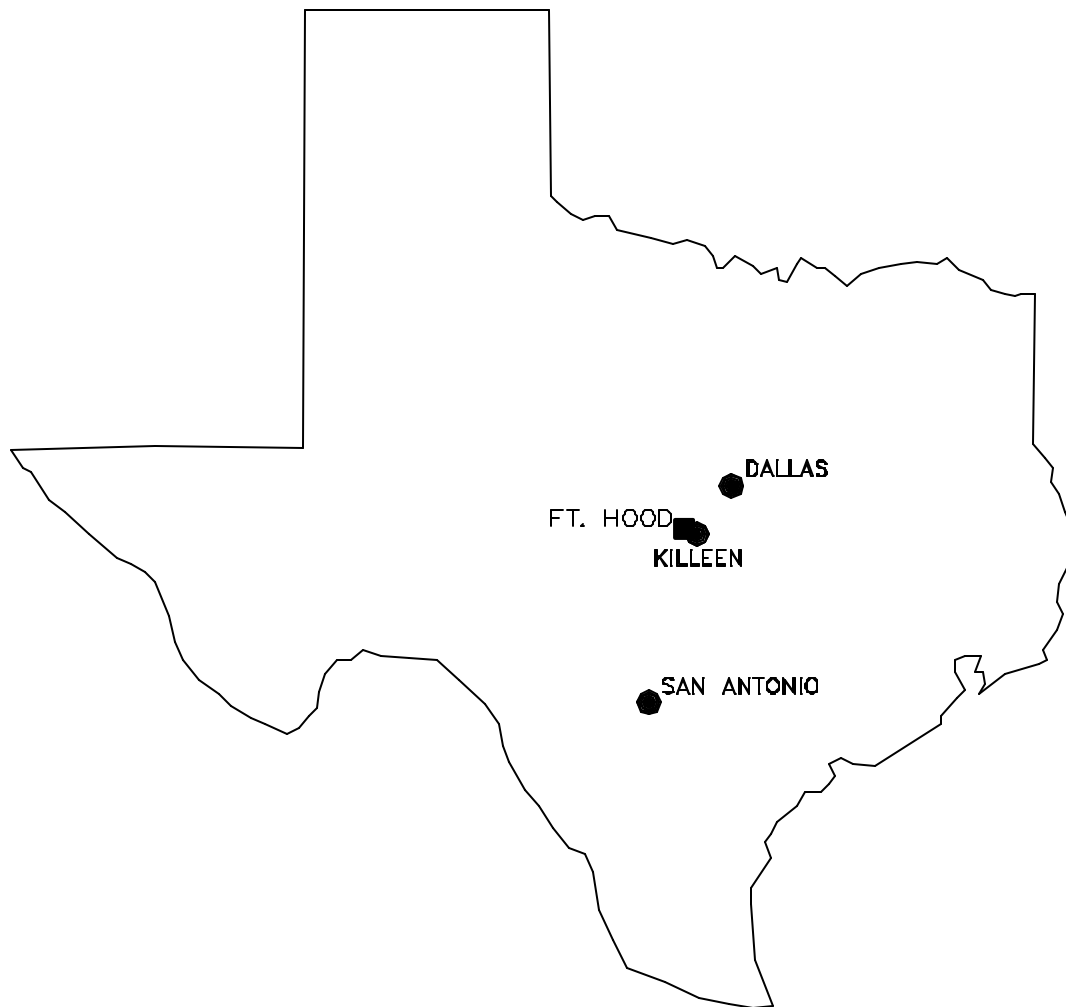
Table 5.1 FH-009 Soil Analytes Above Screening Criteria

Location	Sample ID	Depth	Parameter	Result	Units	Screening Criteria	Screening Concentration	Units
PZ102	09SB117	14.0-15.0	Arsenic	11.6	mg/kg	Soil Background	9.2	mg/kg
PZ104	09SB119	14.0-15.0	Arsenic	11.7	mg/kg	Soil Background	9.2	mg/kg

FIGURES

FH-009

NAME: S:\HOOD\FHLOCAT.DWG DATE: APR 19, 1999 TIME: 12:51 PM PCP: S:\HOOD\PCP\FRP.PCP



U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

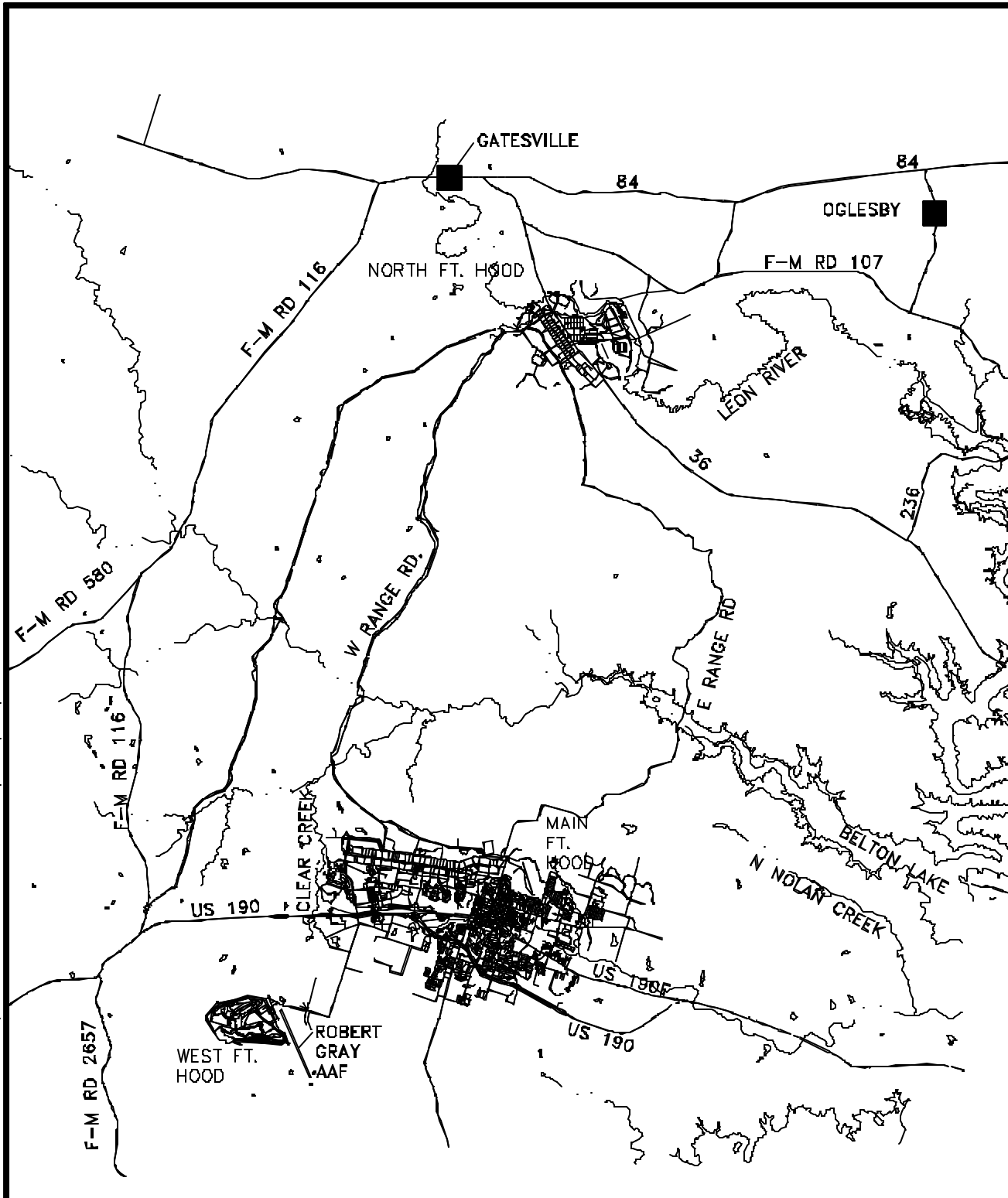
**FORT HOOD
VICINITY MAP**



*Science Applications
International Corporation* Columbus, Ohio

DRAWN SC	CHECKED	DATE	SCALE NO SCALE	PROJECT NO.	FIGURE NO. 1.1
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NAME: S:\HOOD\RFIFACIL.DWG DATE: MAR 01, 1999 TIME: 2:56 PM PCP: S:\HOOD\PCP\FRP.PCP



LEGEND

- MAJOR ROADS
- RIVERS/STREAMS
- WATER BODIES

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

FT. HOOD INSTALLATION MAP



Science Applications
International Corporation

Columbus, Ohio

DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	FIGURE NO.
			1"=7000M		1.2



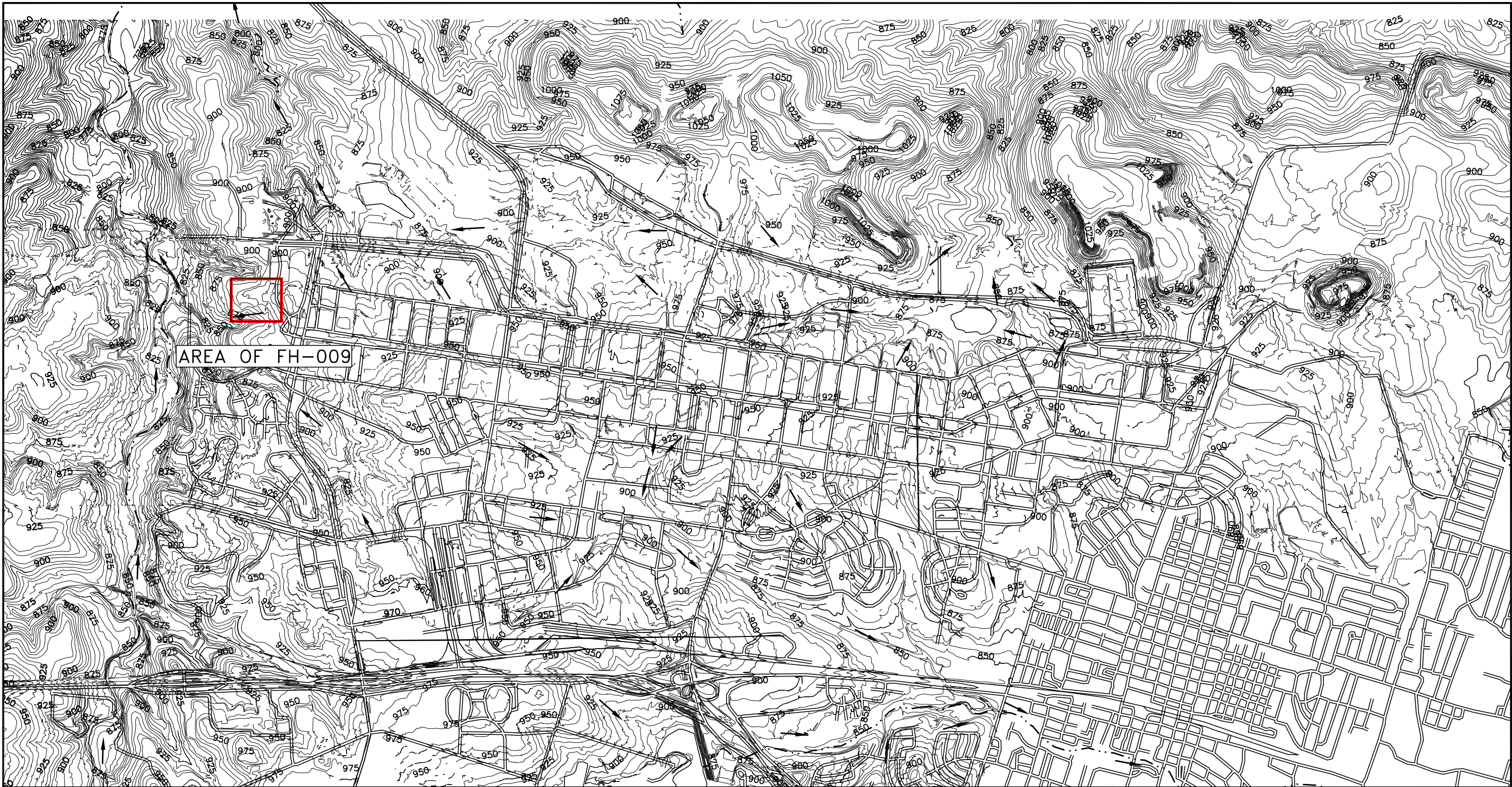
Looking west from the eastern boundary of Landfill 9.



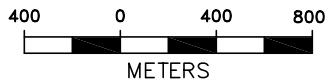
Looking west along the southern boundary of Landfill 9.

Figure 3.1 Photographs of FH-009

NAME: S:\HOOD\PS\9TOPO.DWG DATE: MAY 22, 2000 TIME: 3:15 PM PCP: S:\HOOD\PCP\FRP1.PCP



AREA OF FH-009



LEGEND

- TOPOGRAPHIC CONTOUR (FT.)
- DRAINAGE
- SURFACE DRAINAGE FLOW
- FH-009

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

TOPOGRAPHY AND DRAINAGE
OF MAIN FT. HOOD



Science Applications
International Corporation

Columbus, Ohio

DRAWN

CHECKED

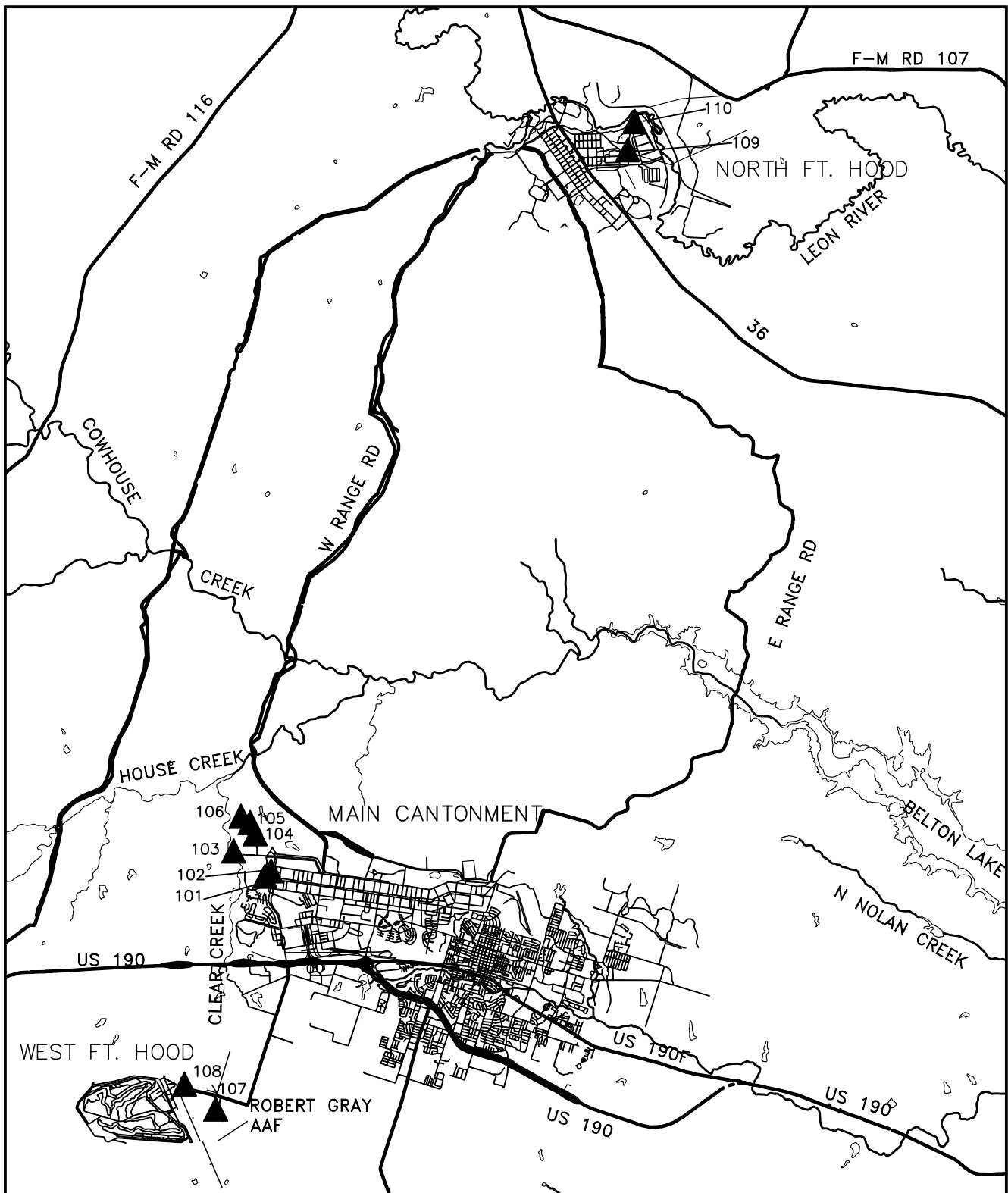
DATE

SCALE
AS SHOWN





PROJECT NO.

FIGURE NO.
2.1

NAME: S:\HOOD\BACK.DWG DATE: OCT 13, 1999 TIME: 5:22 PM PCP: S:\HOOD\PCP\FRP.PCP



LEGEND

-  MAJOR ROADS
-  RIVERS/STREAMS
-  WATER BODIES
-  BACKGROUND SOIL SAMPLE LOCATION

U.S. ARMY
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

LOCATIONS OF BACKGROUND SOIL SAMPLES

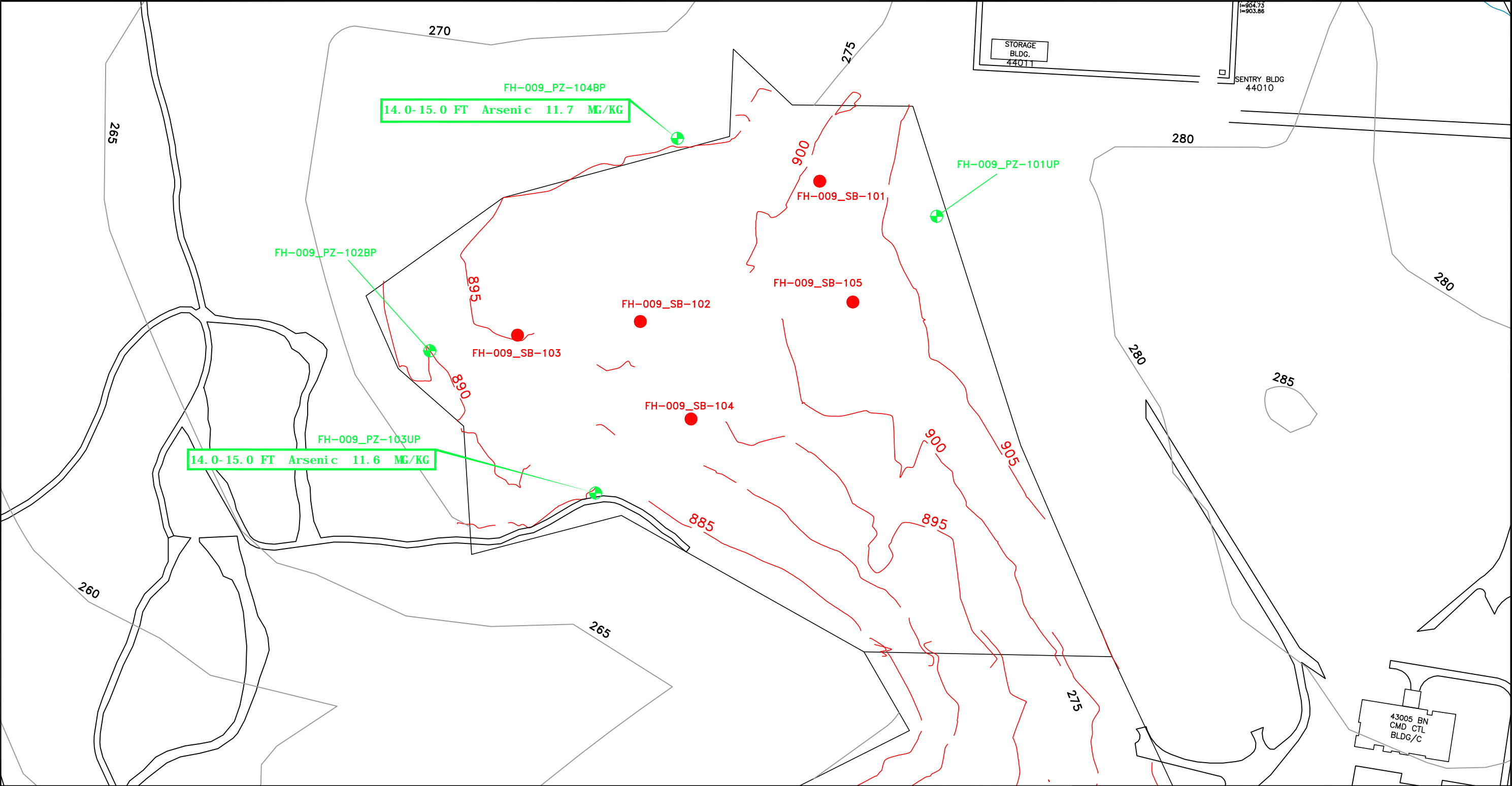


Science Applications
International Corporation Columbus, Ohio

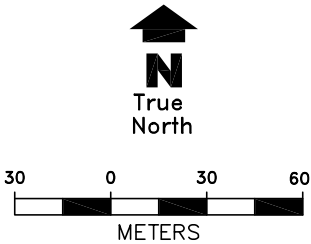


DRAWN	CHECKED	DATE	SCALE	PROJECT NO.	FIGURE NO.
SC			1"=5000M		4.2

NAME: LAYOUT1-S:\HOOD\FH009\9SC00.DWG DATE: JUL 21, 2000 TIME: 2:14 PM CTB: S\CTB PLOTTING\FRPI.CTB



FH-009
MAIN FT.
HOOD
LOCATION
MAP



LEGEND

- 825 TOPOGRAPHIC CONTOUR (FT.)
- RAILROAD
- DRAINAGE
- FENCE
- LANDFILL BOUNDARY

GREEN DENOTES 1998 SAMPLING
RED DENOTES 1997 SAMPLING

- SOIL BORING
- PIEZOMETER LOCATION
- BP BEDROCK PIEZOMETER
- UP UNCONSOLIDATED PIEZOMETER

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FH-009 Sample Locations and
Results Above Screening Criteria



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International Corporation

Columbus, Ohio

SCALE
AS SHOWN

FIGURE NO.
4.1

APPENDIX A

FH-009 Soil Boring Logs



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Boring FH009-SB101

(Page 1 of 1)

SWMU FH009 : Abandoned Landfill 9
Start Date : 01/08/97
End Date : 01/08/97
Northing Coord. : 3446781.33 m
Easting Coord. : 613765.08 m UTM 14 North
Total Depth of Boring : 25.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 24.5 feet
Depth Drilled Into Rock: 1.0 foot
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 901.49ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	901	CL			Topsoil	Sample 09SB101 collected 0.0-1.0' bgs.
1	900	FL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; 2.5Y7/6 yellow.	
2	899				Silty CLAY; weathered limestone fragments; brick fragments; damp; firm; moderately plastic; 2.5Y5/3 light olive brown.	
3	898	CL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; 2.5Y7/6 yellow.	Description from soil cuttings 2.5-5.0' bgs.
4	897				Same as above; damp.	
5	896					
6	895	FL			Silty CLAY as above with glass; burned wood; rusty metal; dry.	
7	894	CL			Same Silty CLAY as above; no fill material; damp.	
8	893				Same Silty CLAY as above with interbeds of weathered limestone; dry.	
9	892					
10	891	CL			Same as above; dry.	Description from soil cuttings 6.5-14.5' bgs.
11	890	LS				
12	889					
13	888					
14	887					
15	886	CL			Silty CLAY; trace limestone fragments; damp; hard; highly plastic; 2.5Y6/4 light yellowish brown.	Sample 09SB102 collected 14.5-16.0' bgs.
16	885				Same as above; dry.	
17	884				Same Silty CLAY as above with interbeds of weathered limestone.	
18	883					
19	882					
20	881	CL				Description from soil cuttings 16.5-24.5' bgs.
21	880	LS			Same as above; dry.	
22	879					
23	878					
24	877					
25	876	LS			LIMESTONE, weathered; blue-gray.	Sample 09SB103 collected 24.5-25.5' bgs.
26					Bottom of Boring @ 25.5' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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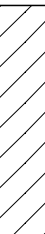

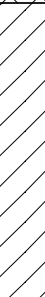

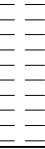

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Boring FH009-SB102

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SWMU FH009 : Abandoned Landfill 9
Start Date : 03/06/97
End Date : 03/06/97
Northing Coord. : 3446708.77 m
Easting Coord. : 613672.57 m UTM 14 North
Total Depth of Boring : 25.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 22.0 feet
Depth Drilled Into Rock: 3.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
 : CME Sampler 5' long

Depth in feet	Surf. Elev. 897.88ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Topsoil	Sample 09SB109 collected 0.0-1.0' bgs.
1	897	CL			Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y7/3 pale yellow and 2.5Y6/8 olive yellow.	Description from soil cuttings 2.5-5.0' bgs.
2	896				Same as above; dry.	
3	895					
4	894					
5	893	FL			CLAY; TRASH; plastic, glass; moist; soft; 2.5Y3/1 very dark gray.	Sample 09SB110 collected 8.0-9.0' bgs.
6	892					
7	891	CL			Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y7/3 pale yellow and 2.5Y6/8 olive yellow.	
8	890				Same as above; dry.	
9	889					
10	888					
11	887	CL LS			Same as above; dry.	Geotechnical sample collected 12.0-13.0' bgs.
12	886					
13	885				Same CLAY as above with interbedded tan LIMESTONE.	
14	884					
15	883	CL			Same Silty CLAY as above; more slit; dry.	Sample 09SB111 collected 15.0-15.5' bgs.
16	882	CL LS			Same CLAY as above with interbeds of tan LIMESTONE; dry.	Description from soil cuttings 17.0-20.0' bgs.
17	881				Same as above; dry.	
18	880					
19	879					
20	878	SH			Same as above; dry.	Sample 09SB112 collected 24.0-25.0' bgs. Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
21	877					
22	876				SHALE; dry; blue-gray.	
23	875					
24	874					
25	873					
26	872				Bottom of Boring @ 25.0' bgs.	



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Boring FH009-SB103

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SWMU FH009 : Abandoned Landfill 9
Start Date : 03/05/97
End Date : 03/05/97
Northing Coord. : 3446701.88 m
Easting Coord. : 613609.99 m UTM 14 North
Total Depth of Boring : 25.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 25.0 feet
Depth Drilled Into Rock: <0.1 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 895.20ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	895	CL			Silty CLAY; limestone fragments; damp; firm; moderately plastic; 2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow.	Sample 09SB106, duplicate FHSB231, and split FHSB331 collected 0.0-1.0' bgs.
1	894					
2	893				Same as above; damp.	
3	892					
4	891	CL LS			Same as above with interbeds of tan LIMESTONE; dry; 2.5Y6/4 light brownish yellow.	Description from soil cuttings 7.0-9.0' bgs.
5	890					
6	889					
7	888					
8	887				Same as above; dry.	
9	886					
10	885					
11	884				Same as above; dry.	
12	883	CL				Sample 09SB107 collected 14.0-15.0' bgs.
13	882					
14	881				CLAY; dry; hard; highly plastic; 2.5Y6/4 light brownish yellow.	
15	880				Same CLAY as above with interbedded tan LIMESTONE.	
16	879	CL LS				Description from soil cuttings 15.0-22.0' bgs.
17	878					
18	877					
19	876					
20	875					
21	874					
22	873				Same as above; dry.	
23	872					
24	871				LIMESTONE/SHALE; dry; blue-gray at bottom of boring.	Sample 09SB108 collected 24.0-25.0' bgs.
25	870					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
26						



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Fort Worth, Texas

Boring FH009-SB104

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SWMU FH009 : Abandoned Landfill 9
Start Date : 03/06/97
End Date : 03/06/97
Northing Coord. : 3446658.77 m
Easting Coord. : 613698.68 m UTM 14 North
Total Depth of Boring : 20.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 17.0 feet
Depth Drilled Into Rock: 3.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 893.86ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Topsoil	Sample 09SB113 collected 0.0-1.0' bgs.
1	893	CL			Silty CLAY; limestone fragments; damp; soft; highly plastic; 2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow.	
2	892					
3	891	CL			Silty CLAY; mixed with coal fragments; damp; firm; moderately plastic; 2.5Y3/1 very dark gray.	
4	890	CL			Silty CLAY; limestone fragments; dry; soft; highly plastic; 2.5Y6/8 olive yellow and 2.5Y7/3 pale yellow.	
5	889				Same CLAY as above with interbedded LIMESTONE; 2.5Y6/1 gray.	
6	888					
7	887					
8	886				Same as above; dry.	Description from soil cuttings 6.0-9.0' bgs.
9	885					
10	884	CL				
11	883	LS			Same as above; dry.	
12	882					
13	881					Description from soil cuttings 11.0-15.0' bgs.
14	880					
15	879				Same as above; dry.	
16	878					Sample 09SB114 collected 15.5-16.0' bgs.
17	877					
18	876	SH			SHALE; dry; blue-gray.	
19	875					
20	874					Sample 09SB115 collected 19.0-20.0' bgs.
21	873				Bottom of Boring @ 20.0' bgs.	
22	872					
23	871					
24	870					
25	869					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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Boring FH009-SB105

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SWMU FH009 : Abandoned Landfill 9
Start Date : 01/09/97
End Date : 01/09/97
Northing Coord. : 3446718.46 m
Easting Coord. : 613781.50 m UTM 14 North
Total Depth of Boring : 13.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
 : CME Sampler 5' long

Depth in feet	Surf. Elev. 903.89ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; 2.5Y7/4 pale yellow.	Sample 09SB104 collected 0.0-1.0' bgs.
1	903	CL				
2	902				Silty CLAY as above; trace rusty metal fragments and organics (roots/twigs); damp; firm; moderately plastic; mottled with 2.5Y3/2 very dark grayish brown.	
3	901					
4	900					Description from soil cuttings 3.0-5.0' bgs.
5	899				Same as above; dry.	
6	898	CL				
7	897					
8	896				Same as above; dry.	Description from soil cuttings 6.0-10.0' bgs.
9	895					
10	894					
11	893	CL			Silty CLAY; weathered limestone fragments; firm; highly plastic; mottled 2.5Y7/1 light gray and 2.5Y6/8 olive yellow.	Sample 09SB105 collected 10.5-11.0' bgs
12	892					
13	891				Bottom of Boring @ 13.0' bgs.	Water in soil cuttings, saturated fill material at 10' bgs upon spoon retrieval from 13' bgs.
14	890					
15	889					
16	888					
17	887					
18	886					
19	885					
20	884					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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Boring FH009-PZ101

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SWMU FH009 : Abandoned Landfill 9
Start Date : 04/07/98
End Date : 04/18/98
Northing Coord. : 3446763.30 m
Easting Coord. : 613825.05 m UTM 14 North
Total Depth of Boring : 27.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 26.4 feet
Depth Drilled Into Rock: 1.1 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 908.91ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	
0							No Protective Casing Installed
1	908	GP			Sand and Gravel, angular, <40mm, chert, limestone; with silt and clay; slightly moist; medium soft and loose; slightly plastic; 2.5Y6/4 light yellowish brown. (Fill?)	Core recovery 0-5' bgs 48" 80%. PID 0.0 ppm LEL 0%.	
2	907						
3	906						
4	905	ML			Clayey SILT; with sand, medium to coarse; damp; medium firm; moderately plastic; 2.5Y3/2 very dark grayish brown. Same as above;		Cement/Bentonite Grout
5	904						
6	903	CL			Silty CLAY; gravel, <30mm, angular to subangular; trace sand, coarse; moist; soft; very plastic; 2.5Y7/6 yellow.	moist 6.0-6.5' bgs.	
7	902						
8	901	NR			No recovery. Note: driller thinks it is same as above.	Core recovery 5-9' bgs 30" 63%. PID 0.0 ppm LEL 0%.	Casing 2" Dia PVC Sch 40
9	900						Top of Seal @ 9.0' bgs
10	899	CL			Silty CLAY as above except dry; firm.	moist 10.0-10.5' bgs.	Seal - Medium Bentonite Chips
11	898	CL LS			Silty CLAY; trace sand and gravel; interbedded top and bottom with limestone beds holding moisture; moist; slightly firm; plastic; 2.5Y6/8 olive yellow mottled 5Y6/3 pale olive.	moist 12.0-12.5' bgs	Top of Filter Pack @ 12.0' bgs
12	897						
13	896						
14	895	CL			Silty CLAY; with sand and gravel; dry; hard; 2.5Y6/8 olive yellow. Same as above except; moist/damp; soft; moderately plastic.	Core recovery 9-14' bgs 60" 100%. PID 0.0 ppm LEL 0%	
15	894						
16	893	CL ML			Silty CLAY; trace sand; moist; slightly firm; plastic; 2.5Y6/8 olive yellow mottled 5Y6/3 pale olive.	Sample recovery 14-19' bgs 32" 53%.	Top of Screen @ 15.95' bgs
17	892				Sandy SILT; with clay; slightly moist; firm; slightly plastic; 2.5Y7/6 olive yellow.		
18	891				No recovery.		
19	890						
20	889	NR					Filter Pack (2040 Silica Sand)
21	888						Screen 2" Dia PVC Sch 40, 10 Slot
22	887				No recovery.		
23	886						
24	885						
25	884	ML			Same Sandy SILT as above except more moist.	Set bottom of 6" PVC casing @ 26' bgs.	
26	883						
27	882	LS NR			LIMESTONE, fossiliferous; blue-gray.	Sample 09SB116 collected 26.0-26.4' bgs.	Bottom of Screen @ 25.48' bgs
28	881				No recovery.		
29	880				Bottom of Boring at 27.5' bgs. Auger refusal.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.	
30	879						



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Boring FH009-PZ102

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SWMU FH009 : Abandoned Landfill 9
Start Date : 04/07/98
End Date : 04/17/98
Northing Coord. : 3446694.44 m
Easting Coord. : 613564.73 m UTM 14 North
Total Depth of Boring : 35.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 14.5 feet
Depth Drilled Into Rock: 20.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 891.49ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	
0	891	CL			Topsoil - Silty CLAY; with sand, coarse; slightly moist; medium soft; plastic; 2.5Y3/2 very dark grayish brown.		No Protective Casing Installed
1	890	CL			Silty CLAY; trace sand and gravel, <20mm, angular; moist; soft; plastic; 2.5Y6/4 light yellowish brown.	Core recovery 0-4' bgs 40" 83%. PID 0.0 ppm LEL 0%.	
2	889	CL			Silty CLAY as above with interbedded LIMESTONE, crystalline, weathered.		
3	888	CL LS			No recovery 3.4-4.0' bgs.		
4	887	CL			Silty CLAY; trace sand and gravel, <20mm, angular; slightly moist; firm; plastic; 2.5Y6/4 light yellowish brown.		
5	886	CL			Silty CLAY as above interbedded with LIMESTONE, weathered, fossiliferous; slightly damp; very hard; moderately plastic (if moistened, very plastic).	Core recovery 4-9' bgs 48" 80%. PID 0.0 ppm LEL 0%.	Cement/Bentonite Grout
6	885	CL			No recovery 8-9' bgs.		
7	884	CL			Same as above, except LIMESTONE is less weathered and more crystalline; 2.5Y8/3 pale yellow.	Core recovery 9-14' bgs 24" 40%. PID 0.0 ppm LEL 0%	Casing 2" Dia PVC Sch 40
8	883	CL LS			No recovery 12-14' bgs. Note: appears very hard and dust from hole smelled like limestone.		
9	882	CL			Same as above.	Sample 09SB117 collected 14-15' bgs.	
10	881	CL LS			LIMESTONE and interbedded shale; dry; blue-gray.		
11	880	CL				Sample recovery 14-19' bgs 60" 100%. PID 0.0 ppm LEL 0%	Top of Seal @ 16.0' bgs
12	879	CL				Set bottom of 6" PVC casing @ 18' bgs.	Seal - Medium Bentonite Chips
13	878	LS					
14	877	LS					
15	876	LS					
16	875	LS					
17	874	LS					
18	873	LS					
19	872	NR			Auger refusal at 19.5'. Begin Coring		Top of Filter Pack @ 18.9' bgs
20	872	NR			No recovery.		Filter Pack(1020/2040 Silica Sand)



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Boring FH009-PZ102

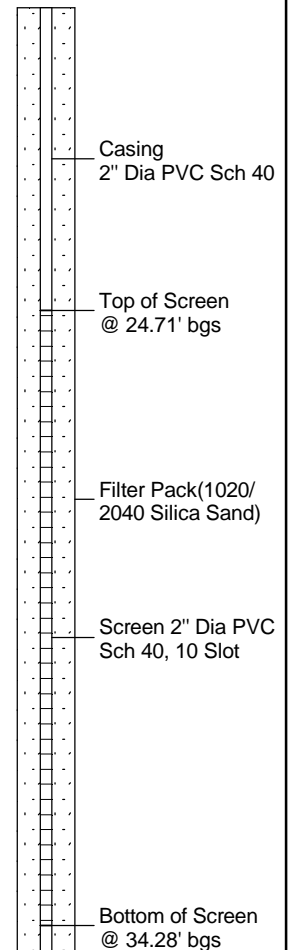
(Page 2 of 2)

SWMU FH009 : Abandoned Landfill 9
Start Date : 04/07/98
End Date : 04/17/98
Northing Coord. : 3446694.44 m
Easting Coord. : 613564.73 m UTM 14 North
Total Depth of Boring : 35.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 14.5 feet
Depth Drilled Into Rock: 20.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 891.49ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
20	871	NR			LIMESTONE, very fossiliferous, moderately weathered, abundant fractures with black silty clay material (weathered), some fractures wet throughout; gray (N5, N6, N7).	
21	870					
22	869					
23	868					
24	867				Same as above.	
25	866					
26	865					
27	864	LS				
28	863					
29	862					
30	861				Same as above; trace moisture in some fractures.	
31	860					
32	859					
33	858					
34	857	LS			Silty/Sandy LIMESTONE, weathered, 10YR6/6 dark yellowish orange; some material weathered to clay; layered with silty limestone 10YR8/2 very pale orange; dry.	
35	856					
36	855				Bottom of Boring at 35.0' bgs.	Rock colors from Munsell Rock Color Chart.
37	854					
38	853					
39	852					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
40						

Well1: PZ102
Elev.: 893.49 TOC





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SWMU FH009 : Abandoned Landfill 9
Start Date : 05/06/98
End Date : 05/12/98
Northing Coord. : 3446621.34 m
Easting Coord. : 613650.35 m UTM 14 North
Total Depth of Boring : 17.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 16.0 feet
Depth Drilled Into Rock: 1.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 884.35ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	
0	884	CL			Topsoil - Silty CLAY; trace sand; moist; soft; 10YR3/2 very dark grayish brown.	Core recovery 0-4.5' bgs 24" 44%.	No Protective Casing Installed
1	883	CL LS			Interbedded angular LIMESTONE, crystalline and fossiliferous; and Silty CLAY; trace sand; moist; soft; very plastic; mottled 10YR3/2 very dark grayish brown and 10YR7/8 yellow. Fill?	Driller said rock @ 2-3.5' Fill?	Top of Seal @ 0.6' bgs
2	882				No recovery. Fill?		Seal - Medium Bentonite Chips
3	881	NR				Driller said soft/wet 3.5-4.5	Top of Filter Pack @ 2.0' bgs
4	880						Top of Screen @ 3.13' bgs
5	879	CL			Silty CLAY as above except wet; rock in shoe crystalline limestone.	Core recovery 4.5-5.3' bgs 9" 100%.	
6	878				No recovery. Note: Driller said this felt like interbedded silty clay and limestone layers. Cuttings reflect this opinion.		
7	877	NR					
8	876					Core recovery 5.3-9.5' bgs 0" 0%.	Filter Pack (1020 Silica Sand)
9	875						Screen 2" Dia PVC Sch 40, 10 Slot
10	874	LS			Mostly LIMESTONE zone with clayey partings. Subangular pieces of limestone; silty clay fillinf slightly damp; 10YR7/2 light gray.		
11	873						
12	872				No recovery.	Core recovery 9.5-14.5' bgs 24" 40%.	Bottom of Screen @ 12.7' bgs
13	871	NR					
14	870					Core recovery 14.5-17.5' bgs 30" 83%.	
15	869	LS			Same as above.	Sample 09SB118 collected 14.5-16.0' bgs.	4.5ft of cave-in. Construction modified due to well depth
16	868						
17	867	SH			Limey SHALE; dry; blue-gray.	Set bottom of 6" PVC casing @ 15' bgs.	
18	866				Bottom of Boring at 17.5' bgs.		
19	865					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.	
20							



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U. S. Army Corp of Engineers
Fort Worth District
Fort Worth, Texas

Boring FH009-PZ104

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SWMU FH009 : Abandoned Landfill 9
Start Date : 05/06/98
End Date : 05/19/98
Northing Coord. : 3446803.15 m
Easting Coord. : 613692.10 m UTM 14 North
Total Depth of Boring : 32.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 17.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 893.15ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS	
0	893				Topsoil - Silty CLAY; some sand; trace gravel, angular, <20mm; 10YR3/2 very dark grayish brown.		No Protective Casing Installed
1	892	CL					
2	891				Interbedded LIMESTONE (angular) and Silty CLAY; trace sand; moist; plastic; mottle 10YR8/3 very pale brown and 10YR6/6 brownish yellow.	Core recovery 0-3.5' bgs 42" 100%. PID 0.0 ppm.	
3	890						
4	889	CL LS			Same as above.		
5	888				LIMESTONE zone. Same as above except dry.		
6	887				No recovery.		
7	886					Core recovery 4-9' bgs 24" 40%.	Cement/Bentonite Grout
8	885	NR					
9	884				Same as above.		
10	883	CL LS				Replaced bit teeth @ 10'	Casing 2" Dia PVC Sch 40
11	882				No recovery. (cuttings indicate same as above)		
12	881					Core recovery 9-14' bgs 18" 30%.	
13	880	NR					
14	879	CL LS			Same as above.	Sample 09SB119 collected 14.0-15.0' bgs	Top of Seal @ 13.9' bgs
15	878				LIMESTONE; dry; blue-gray; with moist shale interbedded.	Sample recovery 14-16.5' bgs 18" 60%.	
16	877						Seal - Medium Bentonite Chips
17	876	LS					
18	875				Same as above; described from cuttings.		Top of Filter Pack @ 17.8' bgs
19	874						Filter Pack (1020 Silica Sand)
20							



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Fort Worth District
Fort Worth, Texas

Boring FH009-PZ104

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SWMU FH009 : Abandoned Landfill 9
Start Date : 05/06/98
End Date : 05/19/98
Northing Coord. : 3446803.15 m
Easting Coord. : 613692.10 m UTM 14 North
Total Depth of Boring : 32.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologists : A.B.Richardson/J.DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 17.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 893.15ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
20	873	LS			Same as above; dry.	
21	872					
22	871					
23	870					
24	869					
25	868					
26	867					
27	866					
28	865					
29	864					
30	863					
31	862					
32	861					
33	860				Bottom of Boring at 32.0' bgs.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
34	859					
35	858					
36	857					
37	856					
38	855					
39	854					
40						

APPENDIX B

FH-009 RFI Analytical Results

Location: PZ101
Sample ID: 09SB116 Depth: 26.0-26.4
COE Sample ID: FH009-SB116/04-07-98/26.0-26.4
Date Collected: 4/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5.1	0.33			mg/kg	SW846 6010
Barium	7440-39-3	7.4	0.06			mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	9.8	0.07			mg/kg	SW846 6010
Lead	7439-92-1	5.8	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.25	0.24	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	360	360	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	360	360	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	360	360	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	360	360	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	360	360	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	360	360	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	360	360	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	360	360	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	360	360	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	360	360	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	360	360	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	270	1700	JB	J	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	360	360	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	360	360	U	U	ug/kg	SW846 8270

Location: PZ101
Sample ID: 09SB116 **Depth:** 26.0-26.4
COE Sample ID: FH009-SB116/04-07-98/26.0-26.4
Date Collected: 4/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	360	360	U	U	ug/kg	SW846 8270
Phenol	108-95-2	360	360	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	360	360	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	360	360	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8240
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8240
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8240
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8240
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8240
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8240
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8240
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8240
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8240
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8240
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8240
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8240
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8240
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8240
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8240
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8240
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8240
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8240
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8240
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8240
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8240
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8240
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8240
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8240
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8240
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8240
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8240
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8240
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8240
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8240
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8240
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8240
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8240
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8240
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8240
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8240
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8240
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8240
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8240
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8240

Location: PZ101
Sample ID: 09SB116 **Depth:** 26.0-26.4
COE Sample ID: FH009-SB116/04-07-98/26.0-26.4
Date Collected: 4/7/98

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8240
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8240
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8240
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8240
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8240
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8240
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8240
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8240
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8240
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8240
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8240
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8240

Location: PZ101
Sample ID: 09PZ102 **Depth:** NA
COE Sample ID: FH009-PZ102/06-02-98
Date Collected: 6/2/98

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
INORGANICS							
Arsenic	7440-38-2	3	2.9	B	U	ug/l	SW846 6010
Barium	7440-39-3	44.6	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	NU	UJ	ug/l	SW846 6010
Chromium	7440-47-3	0.74	0.7	NB	UJ	ug/l	SW846 6010
Lead	7439-92-1	1.5	1.5	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	*U	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WU	UJ	ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U	U	ug/l	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270

Location: PZ101
Sample ID: 09PZ102 Depth: NA
COE Sample ID: FH009-PZ102/06-02-98
Date Collected: 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	UJ	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260

Location: PZ101
Sample ID: 09PZ102 **Depth:** NA
COE Sample ID: FH009-PZ102/06-02-98
Date Collected: 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: PZ102
Sample ID: 09SB117 **Depth:** 14.0-15.0
COE Sample ID: FH009-SB117/04-07-98/14.0-15.0
Date Collected: 4/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	11.6	0.37			mg/kg	SW846 6010
Barium	7440-39-3	29.2	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	19	0.08			mg/kg	SW846 6010
Lead	7439-92-1	11.1	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	0.26	0.26	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
<u>SEMIVOLATILE ORGANICS</u>							
1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270

Location: PZ102
Sample ID: 09SB117 Depth: 14.0-15.0
COE Sample ID: FH009-SB117/04-07-98/14.0-15.0
Date Collected: 4/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	280	1900	JB	J	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8240
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8240

Location: PZ102
Sample ID: 09SB117 Depth: 14.0-15.0
COE Sample ID: FH009-SB117/04-07-98/14.0-15.0
Date Collected: 4/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8240
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8240
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8240
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8240
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8240
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8240
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8240
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8240
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8240
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8240
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8240
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8240
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8240
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8240
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8240
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8240
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8240
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8240
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8240
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8240
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8240
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8240
Acetone	67-64-1	34	6			ug/kg	SW846 8240
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8240
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8240
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8240
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8240
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8240
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8240
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8240
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8240
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8240
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8240
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8240
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8240
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8240
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8240
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8240
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8240
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8240
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8240
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8240
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8240
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8240
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8240
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8240
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8240
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8240
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8240
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8240
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8240
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8240
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8240
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8240
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8240

Location: PZ103
Sample ID: 09SB118 Depth: 14.5-16.0
COE Sample ID: FH009-SB118/05-06-98/14.5-16.0
Date Collected: 5/6/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	6.8	0.19			mg/kg	SW846 6010
Barium	7440-39-3	3.8	0.14	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	3.4	0.08		J	mg/kg	SW846 6010
Lead	7439-92-1	4.8	0.15			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.2	1.2	NU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.13	0.13	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	360	360	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	360	360	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	360	360	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	360	360	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	360	360	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	360	360	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	360	360	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	360	360	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	360	360	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	360	360	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	360	360	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	360	360	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	360	360	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	360	360	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	360	360	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	720	720	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	360	360	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	360	360	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	360	360	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	360	360	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	360	360	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	360	360	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	360	360	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	360	360	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	360	360	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	360	360	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	360	360	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	360	360	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	360	360	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	170	1700	JB	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	360	360	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	360	360	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	360	360	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	360	360	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	360	360	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	360	360	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	360	360	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	360	360	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	360	360	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	360	360	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	360	360	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	360	360	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	360	360	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	360	360	U	U	ug/kg	SW846 8270

Location: PZ103
Sample ID: 09SB118 **Depth:** 14.5-16.0
COE Sample ID: FH009-SB118/05-06-98/14.5-16.0
Date Collected: 5/6/98

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
Hexachlorobutadiene	87-68-3	360	360	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	360	360	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	360	360	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	360	360	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	360	360	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	360	360	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	360	360	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	360	360	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	360	360	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	360	360	U	U	ug/kg	SW846 8270
Phenol	108-95-2	360	360	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	360	360	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	360	360	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location: PZ103
Sample ID: 09SB118 **Depth:** 14.5-16.0
COE Sample ID: FH009-SB118/05-06-98/14.5-16.0
Date Collected: 5/6/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: PZ103
Sample ID: 09PZ101 **Depth:** NA
COE Sample ID: FH009-PZ101/06-02-98
Date Collected: 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2.9	U	U	ug/l	SW846 6010
Barium	7440-39-3	113	0.6			ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U	U	ug/l	SW846 6010
Chromium	7440-47-3	15.8	0.7			ug/l	SW846 6010
Lead	7439-92-1	7.9	1.5			ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	NU	UJ	ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	WNU	UJ	ug/l	SW846 7740
Silver	7440-22-4	2.2	1.4	B		ug/l	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270

Location: PZ103
Sample ID: 09PZ101 Depth: NA
COE Sample ID: FH009-PZ101/06-02-98
Date Collected: 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	5	50	J	J	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	2	10	J	J	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	10	10	U	U	ug/l	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260

Location: PZ103
Sample ID: 09PZ101 **Depth:** NA
COE Sample ID: FH009-PZ101/06-02-98
Date Collected: 6/2/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: PZ104
Sample ID: 09SB119 **Depth:** 14.0-15.0
COE Sample ID: FH009-SB119/05-06-98/14.0-15.0
Date Collected: 5/6/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	11.7	0.18			mg/kg	SW846 6010
Barium	7440-39-3	16	0.13	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.03	0.03	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	15.2	0.08		J	mg/kg	SW846 6010
Lead	7439-92-1	15.4	0.14			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7471
Selenium	7782-49-2	1.1	1.1	WNU	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.12	0.12	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270

Location: PZ104
Sample ID: 09SB119 Depth: 14.0-15.0
COE Sample ID: FH009-SB119/05-06-98/14.0-15.0
Date Collected: 5/6/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	160	1700	JB	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260

Location: PZ104
Sample ID: 09SB119 Depth: 14.0-15.0
COE Sample ID: FH009-SB119/05-06-98/14.0-15.0
Date Collected: 5/6/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB101 Depth: 0.0-1.0
COE Sample ID: FH009-SB101/01-08-97/0.0-1.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.6	0.39			mg/kg	SW846 6010
Barium	7440-39-3	9.9	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.14	0.05	B		mg/kg	SW846 6010
Chromium	7440-47-3	4	0.09	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	4.1	0.16	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.33	0.33	UWN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1900	1900	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U		ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	390	390	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U		ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U		ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U		ug/kg	SW846 8270

Location: SB101
Sample ID: 09SB101 Depth: 0.0-1.0
COE Sample ID: FH009-SB101/01-08-97/0.0-1.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	390	390	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U		ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U		ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	U		ug/kg	SW846 8270
Phenol	108-95-2	390	390	U		ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U		ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U		ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	5	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB101 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB101/01-08-97/0.0-1.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	3	6	J	J	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB102 **Depth:** 14.5-16.0
COE Sample ID: FH009-SB102/01-08-97/14.5-16.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5.9	0.42			mg/kg	SW846 6010
Barium	7440-39-3	19.6	0.1			mg/kg	SW846 6010
Cadmium	7440-43-9	0.2	0.05	B		mg/kg	SW846 6010
Chromium	7440-47-3	11.4	0.1	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	6.7	0.18	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.36	0.36	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.24	0.24	U	U	mg/kg	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	420	420	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	420	420	U		ug/kg	SW846 8270

Location: SB101
Sample ID: 09SB102 Depth: 14.5-16.0
COE Sample ID: FH009-SB102/01-08-97/14.5-16.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthylene	208-96-8	420	420	U		ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	420	420	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	420	420	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U		ug/kg	SW846 8270
Chrysene	218-01-9	420	420	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	420	420	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	U		ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U		ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U		ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	420	420	U		ug/kg	SW846 8270
Phenol	108-95-2	420	420	U		ug/kg	SW846 8270
Pyrene	129-00-0	420	420	U		ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U		ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB102 **Depth:** 14.5-16.0
COE Sample ID: FH009-SB102/01-08-97/14.5-16.0
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	8	6		U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	3	6	J	J	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB103 **Depth:** 24.5-25.5
COE Sample ID: FH009-SB103/01-08-97/24.5-25.5
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.5	0.37			mg/kg	SW846 6010
Barium	7440-39-3	13.2	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.17	0.04	B		mg/kg	SW846 6010
Chromium	7440-47-3	5.8	0.09	E*	J	mg/kg	SW846 6010
Lead	7439-92-1	5.9	0.16	N	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U*	UJ	mg/kg	SW846 7470
Selenium	7782-49-2	0.31	0.31	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270

Location: SB101
Sample ID: 09SB103 **Depth:** 24.5-25.5
COE Sample ID: FH009-SB103/01-08-97/24.5-25.5
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	370	370	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	370	370	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	370	370	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	730	730	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	370	370	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	370	370	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	370	370	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	40	370	J		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	U		ug/kg	SW846 8270
Phenol	108-95-2	370	370	U		ug/kg	SW846 8270
Pyrene	129-00-0	370	370	U		ug/kg	SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	SW846 8270
<u>VOLATILE ORGANICS</u>							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260

Location: SB101
Sample ID: 09SB103 Depth: 24.5-25.5
COE Sample ID: FH009-SB103/01-08-97/24.5-25.5
Date Collected: 1/8/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	16	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromodiform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	3	6	J	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	4	6	J	J	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB109 Depth: 0.0-1.0
COE Sample ID: FH009-SB109/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	2.7	0.38			mg/kg	SW846 6010
Barium	7440-39-3	36	0.07	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	5.8	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
<u>SEMIVOLATILE ORGANICS</u>							
1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 09SB109 Depth: 0.0-1.0
COE Sample ID: FH009-SB109/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	U	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	2	6	J	J	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB109 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB109/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	6	J	J	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB110 **Depth:** 8.0-9.0
COE Sample ID: FH009-SB110/03-06-97/8.0-9.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4	0.41			mg/kg	SW846 6010
Barium	7440-39-3	16.2	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.07	0.07	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	9.2	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5.9	0.24			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010

SEMI-VOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	430	430	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	430	430	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	430	430	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	430	430	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	430	430	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	430	430	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2100	2100	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	430	430	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	430	430	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	430	430	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2100	2100	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	430	430	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	430	430	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	430	430	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	430	430	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	430	430	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	430	430	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2100	2100	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	430	430	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	860	860	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2100	2100	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2100	2100	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	430	430	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	430	430	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	430	430	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	430	430	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	430	430	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2100	2100	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2100	2100	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	430	430	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 09SB110 Depth: 8.0-9.0
COE Sample ID: FH009-SB110/03-06-97/8.0-9.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthylene	208-96-8	430	430	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	430	430	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	430	430	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	430	430	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	430	430	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	430	430	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	430	430	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2100	2100	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	430	430	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	430	430	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	430	430	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	430	430	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	430	430	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	430	430	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	430	430	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	430	430	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	430	430	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	430	430	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	430	430	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	430	430	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	430	430	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	430	430	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	430	430	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	430	430	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	430	430	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	430	430	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	430	430	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	430	430	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	430	430	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	430	430	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	430	430	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2100	2100	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	430	430	U	U	ug/kg	SW846 8270
Phenol	108-95-2	430	430	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	430	430	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	430	430	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB110 **Depth:** 8.0-9.0
COE Sample ID: FH009-SB110/03-06-97/8.0-9.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	29	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	8	6			ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB111 **Depth:** 15.0-15.5
COE Sample ID: FH009-SB111/03-06-97/15.0-15.5
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.5	0.39			mg/kg	SW846 6010
Barium	7440-39-3	13.8	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	5.2	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	5.4	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	410	410	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	410	410	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	410	410	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	410	410	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	410	410	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	410	410	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 09SB111 Depth: 15.0-15.5
COE Sample ID: FH009-SB111/03-06-97/15.0-15.5
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,6-Trichlorophenol	88-06-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	410	410	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	410	410	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	410	410	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	410	410	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	410	410	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	410	410	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	410	410	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	410	410	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	410	410	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	820	820	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	410	410	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	410	410	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	410	410	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	410	410	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	410	410	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	410	410	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	410	410	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	410	410	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	410	410	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	410	410	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	410	410	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	410	410	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	410	410	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	410	410	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	410	410	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	410	410	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	410	410	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	410	410	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	410	410	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	410	410	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	410	410	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	410	410	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	410	410	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	410	410	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	410	410	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	410	410	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	410	410	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	410	410	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	410	410	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	410	410	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	410	410	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	410	410	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	410	410	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	410	410	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	410	410	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	410	410	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	410	410	U	U	ug/kg	SW846 8270
Phenol	108-95-2	410	410	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	410	410	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	410	410	U	U	ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB111 **Depth:** 15.0-15.5
COE Sample ID: FH009-SB111/03-06-97/15.0-15.5
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	12	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	4	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB112 Depth: 24.0-25.0
COE Sample ID: FH009-SB112/03-06-97/24.0-25.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	5.7	0.33			mg/kg	SW846 6010
Barium	7440-39-3	3.3	0.06	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.6	0.08	E	J	mg/kg	SW846 6010
Lead	7439-92-1	4.8	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.2	1.2	UE	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270

Location: SB102
Sample ID: 09SB112 Depth: 24.0-25.0
COE Sample ID: FH009-SB112/03-06-97/24.0-25.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	46	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location: SB102
Sample ID: 09SB112 **Depth:** 24.0-25.0
COE Sample ID: FH009-SB112/03-06-97/24.0-25.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB106 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB106/03-05-97/0.0-1.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3	0.38	*	J	mg/kg	SW846 6010
Barium	7440-39-3	50	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.1	0.06	B		mg/kg	SW846 6010
Chromium	7440-47-3	11.5	0.09	EN*	J	mg/kg	SW846 6010
Lead	7439-92-1	6.9	0.22	E*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UWN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	400	400	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	400	400	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	400	400	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	400	400	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	400	400	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	400	400	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	400	400	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	400	400	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	400	400	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	400	400	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	400	400	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	400	400	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	400	400	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	400	400	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	400	400	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	800	800	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	400	400	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	400	400	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	400	400	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	400	400	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	400	400	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270

Location: SB103
Sample ID: 09SB106 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB106/03-05-97/0.0-1.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthene	83-32-9	400	400	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	400	400	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	400	400	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	400	400	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	400	400	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	400	400	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	400	400	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	400	400	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	400	400	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	400	400	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	400	400	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	400	400	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	400	400	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	400	400	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	400	400	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	400	400	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	400	400	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	400	400	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	400	400	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	400	400	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	400	400	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	400	400	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	400	400	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	400	400	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	400	400	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	400	400	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	400	400	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	400	400	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	400	400	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	400	400	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	400	400	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	400	400	U	U	ug/kg	SW846 8270
Phenol	108-95-2	400	400	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	400	400	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	400	400	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB106 Depth: 0.0-1.0
COE Sample ID: FH009-SB106/03-05-97/0.0-1.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	17	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB107 Depth: 14.0-15.0
COE Sample ID: FH009-SB107/03-05-97/14.0-15.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	4.2	0.37	*	J	mg/kg	SW846 6010
Barium	7440-39-3	11.2	0.07			mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	6.6	0.08	EN*	J	mg/kg	SW846 6010
Lead	7439-92-1	7	0.21	E*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
<u>SEMI-VOLATILE ORGANICS</u>							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270

Location: SB103
Sample ID: 09SB107 Depth: 14.0-15.0
COE Sample ID: FH009-SB107/03-05-97/14.0-15.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	390	390	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	U	U	ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB107 Depth: 14.0-15.0
COE Sample ID: FH009-SB107/03-05-97/14.0-15.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	11	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	J	J	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB108 Depth: 24.0-25.0
COE Sample ID: FH009-SB108/03-05-97/24.0-25.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.7	0.33	*	J	mg/kg	SW846 6010
Barium	7440-39-3	2.6	0.06			mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	1.9	0.08	EN*	J	mg/kg	SW846 6010
Lead	7439-92-1	3.3	0.19	E*	J	mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.2	1.2	UWN	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
SEMI-VOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	710	710	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270

Location: SB103
Sample ID: 09SB108 **Depth:** 24.0-25.0
COE Sample ID: FH009-SB108/03-05-97/24.0-25.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isothorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	36	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	5			ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location: SB103
Sample ID: 09SB108 **Depth:** 24.0-25.0
COE Sample ID: FH009-SB108/03-05-97/24.0-25.0
Date Collected: 3/5/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB113 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB113/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	4.2	0.4			mg/kg	SW846 6010
Barium	7440-39-3	45.7	0.08	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	11.5	0.09	E	J	mg/kg	SW846 6010
Lead	7439-92-1	8.7	0.23			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.4	1.4	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.22	0.22	U	U	mg/kg	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	420	420	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	420	420	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	420	420	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	420	420	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	420	420	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	420	420	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	2000	2000	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	420	420	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	420	420	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	2000	2000	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	420	420	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	420	420	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	420	420	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	420	420	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	420	420	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	420	420	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	2000	2000	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	420	420	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	850	850	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	2000	2000	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	2000	2000	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	420	420	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	420	420	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	420	420	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	420	420	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	420	420	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	2000	2000	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	2000	2000	U	U	ug/kg	SW846 8270

Location: SB104
Sample ID: 09SB113 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB113/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthene	83-32-9	420	420	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	420	420	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	420	420	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	420	420	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	420	420	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	420	420	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	420	420	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	420	420	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	2000	2000	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	420	420	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	420	420	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	160	420	J	J	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	420	420	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	420	420	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	420	420	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	420	420	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	420	420	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	420	420	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	420	420	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	420	420	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	420	420	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	420	420	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	420	420	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	420	420	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	420	420	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	420	420	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	420	420	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	420	420	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	420	420	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	420	420	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	420	420	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	420	420	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	2000	2000	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	420	420	U	U	ug/kg	SW846 8270
Phenol	108-95-2	420	420	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	420	420	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	420	420	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB113 Depth: 0.0-1.0
COE Sample ID: FH009-SB113/03-06-97/0.0-1.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	63	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB114 Depth: 15.5-16.0
COE Sample ID: FH009-SB114/03-06-97/15.5-16.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	8.4	0.37			mg/kg	SW846 6010
Barium	7440-39-3	16.3	0.07	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.06	0.06	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	6	0.08	E	J	mg/kg	SW846 6010
Lead	7439-92-1	11.5	0.22			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.3	1.3	UW	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.2	0.2	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	390	390	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	390	390	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	390	390	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	390	390	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	390	390	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	390	390	U	U	ug/kg	SW846 8270

Location: SB104
Sample ID: 09SB114 Depth: 15.5-16.0
COE Sample ID: FH009-SB114/03-06-97/15.5-16.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,5-Trichlorophenol	95-95-4	1900	1900	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	390	390	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	390	390	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1900	1900	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	390	390	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	390	390	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	390	390	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	390	390	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	390	390	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	390	390	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1900	1900	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	390	390	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	780	780	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1900	1900	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1900	1900	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	390	390	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	390	390	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	390	390	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	390	390	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	390	390	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1900	1900	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1900	1900	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	390	390	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	390	390	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	390	390	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	390	390	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	390	390	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	390	390	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	390	390	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	390	390	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1900	1900	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	390	390	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	390	390	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	390	390	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	390	390	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	390	390	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	390	390	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	390	390	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	390	390	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	390	390	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	390	390	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	390	390	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	390	390	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	390	390	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	390	390	U	U	ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	390	390	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	390	390	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	390	390	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	390	390	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	390	390	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	390	390	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	390	390	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	390	390	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	390	390	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1900	1900	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	390	390	U	U	ug/kg	SW846 8270
Phenol	108-95-2	390	390	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	390	390	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	390	390	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB114 **Depth:** 15.5-16.0
COE Sample ID: FH009-SB114/03-06-97/15.5-16.0
Date Collected: 3/6/97

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	24	6			ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB115 **Depth:** 19.0-20.0
COE Sample ID: FH009-SB115/03-06-97/19.0-20.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
<u>INORGANICS</u>							
Arsenic	7440-38-2	6.8	0.33			mg/kg	SW846 6010
Barium	7440-39-3	3	0.06	E	J	mg/kg	SW846 6010
Cadmium	7440-43-9	0.05	0.05	U	U	mg/kg	SW846 6010
Chromium	7440-47-3	2.1	0.07	E	J	mg/kg	SW846 6010
Lead	7439-92-1	4.7	0.19			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 7470
Selenium	7782-49-2	1.2	1.2	UE	UJ	mg/kg	SW846 7740
Silver	7440-22-4	0.18	0.18	U	U	mg/kg	SW846 6010
<u>SEMIVOLATILE ORGANICS</u>							
1,2,4,5-Tetrachlorobenzene	95-94-3	350	350	U	U	ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	350	350	U	U	ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	350	350	U	U	ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	350	350	U	U	ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	350	350	U	U	ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	350	350	U	U	ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1700	1700	U	U	ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	350	350	U	U	ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	350	350	U	U	ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1700	1700	U	U	ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	350	350	U	U	ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	350	350	U	U	ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	350	350	U	U	ug/kg	SW846 8270
2-Chlorophenol	95-57-8	350	350	U	U	ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	350	350	U	U	ug/kg	SW846 8270
2-Methylphenol	95-48-7	350	350	U	U	ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1700	1700	U	U	ug/kg	SW846 8270
2-Nitrophenol	88-75-5	350	350	U	U	ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	700	700	U	U	ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1700	1700	U	U	ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1700	1700	U	U	ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	350	350	U	U	ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	350	350	U	U	ug/kg	SW846 8270
4-Chloroaniline	106-47-8	350	350	U	U	ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	350	350	U	U	ug/kg	SW846 8270
4-Methylphenol	106-44-5	350	350	U	U	ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1700	1700	U	U	ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1700	1700	U	U	ug/kg	SW846 8270
Acenaphthene	83-32-9	350	350	U	U	ug/kg	SW846 8270
Acenaphthylene	208-96-8	350	350	U	U	ug/kg	SW846 8270
Anthracene	120-12-7	350	350	U	U	ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	350	350	U	U	ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	350	350	U	U	ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	350	350	U	U	ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	350	350	U	U	ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	350	350	U	U	ug/kg	SW846 8270
Benzoic Acid	65-85-0	1700	1700	U	U	ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	350	350	U	U	ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	350	350	U	U	ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	350	350	U	U	ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	350	350	U	U	ug/kg	SW846 8270
Chrysene	218-01-9	350	350	U	U	ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	350	350	U	U	ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	350	350	U	U	ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	350	350	U	U	ug/kg	SW846 8270
Dibenzofuran	132-64-9	350	350	U	U	ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	350	350	U	U	ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	350	350	U	U	ug/kg	SW846 8270
Fluoranthene	206-44-0	350	350	U	U	ug/kg	SW846 8270
Fluorene	86-73-7	350	350	U	U	ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	350	350	U	U	ug/kg	SW846 8270

Location: SB104
Sample ID: 09SB115 Depth: 19.0-20.0
COE Sample ID: FH009-SB115/03-06-97/19.0-20.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	350	350	U	U	ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	350	350	U	U	ug/kg	SW846 8270
Hexachloroethane	67-72-1	350	350	U	U	ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	350	350	U	U	ug/kg	SW846 8270
Isophorone	78-59-1	350	350	U	U	ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	350	350	U	U	ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	350	350	U	U	ug/kg	SW846 8270
Naphthalene	91-20-3	350	350	U	U	ug/kg	SW846 8270
Nitrobenzene	98-95-3	350	350	U	U	ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1700	1700	U	U	ug/kg	SW846 8270
Phenanthrene	85-01-8	350	350	U	U	ug/kg	SW846 8270
Phenol	108-95-2	350	350	U	U	ug/kg	SW846 8270
Pyrene	129-00-0	350	350	U	U	ug/kg	SW846 8270
Pyridine	110-86-1	350	350	U	U	ug/kg	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/kg	SW846 8260
Acetone	67-64-1	46	5			ug/kg	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/kg	SW846 8260

Location: SB104
Sample ID: 09SB115 **Depth:** 19.0-20.0
COE Sample ID: FH009-SB115/03-06-97/19.0-20.0
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/kg	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/kg	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 09SB104 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB104/01-09-97/0.0-1.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	3.7	0.37			mg/kg	SW846 6010
Barium	7440-39-3	7.8	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.15	0.04	B		mg/kg	SW846 6010
Chromium	7440-47-3	4.3	0.09			mg/kg	SW846 6010
Lead	7439-92-1	3.2	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	0.31	0.31	UW	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	370	370	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	370	370	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	370	370	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	740	740	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	370	370	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	370	370	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	370	370	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270

Location: SB105
Sample ID: 09SB104 Depth: 0.0-1.0
COE Sample ID: FH009-SB104/01-09-97/0.0-1.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	370	370	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	U		ug/kg	SW846 8270
Phenol	108-95-2	370	370	U		ug/kg	SW846 8270
Pyrene	129-00-0	370	370	U		ug/kg	SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 09SB104 **Depth:** 0.0-1.0
COE Sample ID: FH009-SB104/01-09-97/0.0-1.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	6	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	17	6		U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 09SB105 **Depth:** 10.5-11.0
COE Sample ID: FH009-SB105/01-09-97/10.5-11.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.5	0.37			mg/kg	SW846 6010
Barium	7440-39-3	15	0.09			mg/kg	SW846 6010
Cadmium	7440-43-9	0.14	0.04	B		mg/kg	SW846 6010
Chromium	7440-47-3	3.6	0.09			mg/kg	SW846 6010
Lead	7439-92-1	2.2	0.16			mg/kg	SW846 6010
Mercury	7439-97-6	0.04	0.04	U	U	mg/kg	SW846 6010
Selenium	7782-49-2	1.6	1.6	UW	UJ	mg/kg	SW846 6010
Silver	7440-22-4	0.21	0.21	U	U	mg/kg	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	370	370	U		ug/kg	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	370	370	U		ug/kg	SW846 8270
1,2-Dichlorobenzene	95-50-1	370	370	U		ug/kg	SW846 8270
1,3-Dichlorobenzene	541-73-1	370	370	U		ug/kg	SW846 8270
1,4-Dichlorobenzene	106-46-7	370	370	U		ug/kg	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	370	370	U		ug/kg	SW846 8270

Location: SB105
Sample ID: 09SB105 **Depth:** 10.5-11.0
COE Sample ID: FH009-SB105/01-09-97/10.5-11.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
2,4,5-Trichlorophenol	95-95-4	1800	1800	U		ug/kg	SW846 8270
2,4,6-Trichlorophenol	88-06-2	370	370	U		ug/kg	SW846 8270
2,4-Dichlorophenol	120-83-2	370	370	U		ug/kg	SW846 8270
2,4-Dimethylphenol	105-67-9	370	370	U		ug/kg	SW846 8270
2,4-Dinitrophenol	51-28-5	1800	1800	U		ug/kg	SW846 8270
2,4-Dinitrotoluene	121-14-2	370	370	U		ug/kg	SW846 8270
2,6-Dinitrotoluene	606-20-2	370	370	U		ug/kg	SW846 8270
2-Chloronaphthalene	91-58-7	370	370	U		ug/kg	SW846 8270
2-Chlorophenol	95-57-8	370	370	U		ug/kg	SW846 8270
2-Methylnaphthalene	91-57-6	370	370	U		ug/kg	SW846 8270
2-Methylphenol	95-48-7	370	370	U		ug/kg	SW846 8270
2-Nitroaniline	88-74-4	1800	1800	U		ug/kg	SW846 8270
2-Nitrophenol	88-75-5	370	370	U		ug/kg	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	740	740	U		ug/kg	SW846 8270
3-Nitroaniline	99-09-2	1800	1800	U		ug/kg	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	1800	1800	U		ug/kg	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	370	370	U		ug/kg	SW846 8270
4-chloro-3-methylphenol	59-50-7	370	370	U		ug/kg	SW846 8270
4-Chloroaniline	106-47-8	370	370	U		ug/kg	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	370	370	U		ug/kg	SW846 8270
4-Methylphenol	106-44-5	370	370	U		ug/kg	SW846 8270
4-Nitroaniline	100-01-6	1800	1800	U		ug/kg	SW846 8270
4-Nitrophenol	100-02-7	1800	1800	U		ug/kg	SW846 8270
Acenaphthene	83-32-9	370	370	U		ug/kg	SW846 8270
Acenaphthylene	208-96-8	370	370	U		ug/kg	SW846 8270
Anthracene	120-12-7	370	370	U		ug/kg	SW846 8270
Benzo(a)anthracene	56-55-3	370	370	U		ug/kg	SW846 8270
Benzo(a)pyrene	50-32-8	370	370	U		ug/kg	SW846 8270
Benzo(b)fluoranthene	205-99-2	370	370	U		ug/kg	SW846 8270
Benzo(g,h,i)perylene	191-24-2	370	370	U		ug/kg	SW846 8270
Benzo(k)fluoranthene	207-08-9	370	370	U		ug/kg	SW846 8270
Benzoic Acid	65-85-0	1800	1800	U		ug/kg	SW846 8270
Benzyl Alcohol	100-51-6	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	370	370	U		ug/kg	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	370	370	U		ug/kg	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	370	370	U		ug/kg	SW846 8270
Butyl Benzyl Phthalate	85-68-7	370	370	U		ug/kg	SW846 8270
Chrysene	218-01-9	370	370	U		ug/kg	SW846 8270
Di-n-butyl Phthalate	84-74-2	370	370	U		ug/kg	SW846 8270
Di-n-octyl Phthalate	117-84-0	370	370	U		ug/kg	SW846 8270
Dibenz(a,h)anthracene	53-70-3	370	370	U		ug/kg	SW846 8270
Dibenzofuran	132-64-9	370	370	U		ug/kg	SW846 8270
Diethyl Phthalate	84-66-2	370	370	U		ug/kg	SW846 8270
Dimethyl Phthalate	131-11-3	370	370	U		ug/kg	SW846 8270
Fluoranthene	206-44-0	370	370	U		ug/kg	SW846 8270
Fluorene	86-73-7	370	370	U		ug/kg	SW846 8270
Hexachlorobenzene	118-74-1	370	370	U		ug/kg	SW846 8270
Hexachlorobutadiene	87-68-3	370	370	U		ug/kg	SW846 8270
Hexachlorocyclopentadiene	77-47-4	370	370	U		ug/kg	SW846 8270
Hexachloroethane	67-72-1	370	370	U		ug/kg	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	370	370	U		ug/kg	SW846 8270
Isophorone	78-59-1	370	370	U		ug/kg	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	370	370	U		ug/kg	SW846 8270
N-Nitrosodiphenylamine	86-30-6	370	370	U		ug/kg	SW846 8270
Naphthalene	91-20-3	370	370	U		ug/kg	SW846 8270
Nitrobenzene	98-95-3	370	370	U		ug/kg	SW846 8270
Pentachlorophenol	87-86-5	1800	1800	U		ug/kg	SW846 8270
Phenanthrene	85-01-8	370	370	U		ug/kg	SW846 8270
Phenol	108-95-2	370	370	U		ug/kg	SW846 8270
Pyrene	129-00-0	370	370	U		ug/kg	SW846 8270
Pyridine	110-86-1	370	370	U		ug/kg	SW846 8270
VOLATILE ORGANICS							
1,1,1,2-Tetrachloroethane	630-20-6	6	6	U	U	ug/kg	SW846 8260
1,1,1-Trichloroethane	71-55-6	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: 09SB105 **Depth:** 10.5-11.0
COE Sample ID: FH009-SB105/01-09-97/10.5-11.0
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,1,2,2-Tetrachloroethane	79-34-5	6	6	U	U	ug/kg	SW846 8260
1,1,2-Trichloroethane	79-00-5	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethane	75-34-3	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloroethene	75-35-4	6	6	U	U	ug/kg	SW846 8260
1,1-Dichloropropene	563-58-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	6	6	U	U	ug/kg	SW846 8260
1,2,3-Trichloropropane	96-18-4	6	6	U	U	ug/kg	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	6	6	U	U	ug/kg	SW846 8260
1,2,4-trimethylbenzene	95-63-6	6	6	U	U	ug/kg	SW846 8260
1,2-cis-Dichloroethene	156-59-2	6	6	U	U	ug/kg	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	6	6	U	U	ug/kg	SW846 8260
1,2-Dibromoethane	106-93-4	6	6	U	U	ug/kg	SW846 8260
1,2-Dichlorobenzene	95-50-1	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloroethane	107-06-2	6	6	U	U	ug/kg	SW846 8260
1,2-Dichloropropane	78-87-5	6	6	U	U	ug/kg	SW846 8260
1,2-trans-Dichloroethene	156-60-5	6	6	U	U	ug/kg	SW846 8260
1,3,5-trimethylbenzene	108-67-8	6	6	U	U	ug/kg	SW846 8260
1,3-Dichlorobenzene	541-73-1	6	6	U	U	ug/kg	SW846 8260
1,3-Dichloropropane	142-28-9	6	6	U	U	ug/kg	SW846 8260
1,4-Dichlorobenzene	106-46-7	6	6	U	U	ug/kg	SW846 8260
2,2-Dichloropropane	594-20-7	6	6	U	U	ug/kg	SW846 8260
2-Butanone	78-93-3	6	6	U	U	ug/kg	SW846 8260
2-Chlorotoluene	95-49-8	6	6	U	U	ug/kg	SW846 8260
2-Hexanone	591-78-6	6	6	U	U	ug/kg	SW846 8260
4-Chlorotoluene	106-43-4	6	6	U	U	ug/kg	SW846 8260
4-Methyl-2-pentanone	108-10-1	6	6	U	U	ug/kg	SW846 8260
Acetone	67-64-1	3	6	J	U	ug/kg	SW846 8260
Benzene	71-43-2	6	6	U	U	ug/kg	SW846 8260
Bromobenzene	108-86-1	6	6	U	U	ug/kg	SW846 8260
Bromochloromethane	74-97-5	6	6	U	U	ug/kg	SW846 8260
Bromodichloromethane	75-27-4	6	6	U	U	ug/kg	SW846 8260
Bromoform	75-25-2	6	6	U	U	ug/kg	SW846 8260
Bromomethane	74-83-9	6	6	U	U	ug/kg	SW846 8260
Carbon Tetrachloride	56-23-5	6	6	U	U	ug/kg	SW846 8260
Chlorobenzene	108-90-7	6	6	U	U	ug/kg	SW846 8260
Chloroethane	75-00-3	6	6	U	U	ug/kg	SW846 8260
Chloroform	67-66-3	6	6	U	U	ug/kg	SW846 8260
Chloromethane	74-87-3	6	6	U	U	ug/kg	SW846 8260
Dibromochloromethane	124-48-1	6	6	U	U	ug/kg	SW846 8260
Dibromomethane	74-95-3	6	6	U	U	ug/kg	SW846 8260
Dichlorodifluoromethane	75-71-8	6	6	U	U	ug/kg	SW846 8260
Ethylbenzene	100-41-4	6	6	U	U	ug/kg	SW846 8260
Hexachlorobutadiene	87-68-3	6	6	U	U	ug/kg	SW846 8260
Isopropyl Benzene	98-82-8	6	6	U	U	ug/kg	SW846 8260
m,p-Xylene	13-302-07	6	6	U	U	ug/kg	SW846 8260
Methylene Chloride	75-09-2	6	6	U	U	ug/kg	SW846 8260
n-Butylbenzene	104-51-8	6	6	U	U	ug/kg	SW846 8260
n-propylbenzene	103-65-1	6	6	U	U	ug/kg	SW846 8260
Naphthalene	91-20-3	6	6	U	U	ug/kg	SW846 8260
o-Xylene	95-47-6	6	6	U	U	ug/kg	SW846 8260
p-Isopropyltoluene	99-87-6	6	6	U	U	ug/kg	SW846 8260
sec-Butylbenzene	135-98-8	6	6	U	U	ug/kg	SW846 8260
Styrene	100-42-5	6	6	U	U	ug/kg	SW846 8260
tert-Butylbenzene	98-06-6	6	6	U	U	ug/kg	SW846 8260
Tetrachloroethene	127-18-4	6	6	U	U	ug/kg	SW846 8260
Toluene	108-88-3	6	6	U	U	ug/kg	SW846 8260
Trichloroethene	79-01-6	6	6	U	U	ug/kg	SW846 8260
Trichlorofluoromethane	75-69-4	6	6	U	U	ug/kg	SW846 8260
Vinyl Chloride	75-01-4	6	6	U	U	ug/kg	SW846 8260

Location: SB105
Sample ID: FHGW103 Depth: NA
COE Sample ID: FH009-GW103/01-10-97
Date Collected: 1/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	1.4	0.3	B		ug/l	SW846 6010
Barium	7440-39-3	15.8	2.5			ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U	U	ug/l	SW846 6010
Chromium	7440-47-3	0.8	0.8	U	U	ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U	U	ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U	U	ug/l	SW846 6010
Selenium	7782-49-2	2.8	2.8	UW	UJ	ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U	U	ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U	U	ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U	U	ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U	U	ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U	U	ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U	U	ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U	U	ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U	U	ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U	U	ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U	U	ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U	U	ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U	U	ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U	U	ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U	U	ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U	U	ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U	U	ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U	U	ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U	U	ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U	U	ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U	U	ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U	U	ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U	U	ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U	U	ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U	U	ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U	U	ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U	U	ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U	U	ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U	U	ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U	U	ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U	U	ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U	U	ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U	U	ug/l	SW846 8270
Anthracene	120-12-7	10	10	U	U	ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U	U	ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U	U	ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U	U	ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U	U	ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U	U	ug/l	SW846 8270
Benzoic Acid	65-85-0	50	50	U	U	ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U	U	ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U	U	ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U	U	ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U	U	ug/l	SW846 8270
Chrysene	218-01-9	10	10	U	U	ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U	U	ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U	U	ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U	U	ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U	U	ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U	U	ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U	U	ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U	U	ug/l	SW846 8270
Fluorene	86-73-7	10	10	U	U	ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U	U	ug/l	SW846 8270

Location: SB105
Sample ID: FHGW103 **Depth:** NA
COE Sample ID: FH009-GW103/01-10-97
Date Collected: 1/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	10	10	U	U	ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U	U	ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U	U	ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U	U	ug/l	SW846 8270
Isophorone	78-59-1	10	10	U	U	ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U	U	ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U	U	ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U	U	ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U	U	ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U	U	ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U	U	ug/l	SW846 8270
Phenol	108-95-2	10	10	U	U	ug/l	SW846 8270
Pyrene	129-00-0	10	10	U	U	ug/l	SW846 8270
Pyridine	110-86-1	50	50	U	U	ug/l	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	4	5	J	J	ug/l	SW846 8260
Methylene Chloride	75-09-2	24	5		U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260

Location: SB105
Sample ID: FHGW103 **Depth:** NA
COE Sample ID: FH009-GW103/01-10-97
Date Collected: 1/10/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: NA
Sample ID: ER018 **Depth:** NA
COE Sample ID: FH009-ER018/01-09-97
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	0.3	0.3	U		ug/l	SW846 6010
Barium	7440-39-3	2.5	2.5	U		ug/l	SW846 6010
Cadmium	7440-43-9	0.5	0.5	U		ug/l	SW846 6010
Chromium	7440-47-3	0.8	0.8	U		ug/l	SW846 6010
Lead	7439-92-1	1.7	1.7	U		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U		ug/l	SW846 6010
Selenium	7782-49-2	4.3	2.8	B		ug/l	SW846 6010
Silver	7440-22-4	1.2	1.2	U		ug/l	SW846 6010

SEMIVOLATILE ORGANICS

1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270

Location: NA
Sample ID: ER018 Depth: NA
COE Sample ID: FH009-ER018/01-09-97
Date Collected: 1/9/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	6	50	J		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	10	10	U		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	10	10	U		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	50	50	U		ug/l	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER018 **Depth:** NA
COE Sample ID: FH009-ER018/01-09-97
Date Collected: 1/9/97

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	15	5			ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	2	5	J		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB030 **Depth:** NA
COE Sample ID: FH009-TB030/01-09-97
Date Collected: 1/9/97

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
<u>VOLATILE ORGANICS</u>							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB030 **Depth:** NA
COE Sample ID: FH009-TB030/01-09-97
Date Collected: 1/9/97

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: TB088 **Depth:** NA
COE Sample ID: FH009-TB088/03-06-97
Date Collected: 3/6/97

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
<u>VOLATILE ORGANICS</u>							
1,1,1,2-Tetrachloroethane	630-20-6	5	5	U	U	ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U	U	ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U	U	ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U	U	ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U	U	ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U	U	ug/l	SW846 8260

Location: NA
Sample ID: TB088 Depth: NA
COE Sample ID: FH009-TB088/03-06-97
Date Collected: 3/6/97

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
1,2,3-Trichlorobenzene	87-61-6	5	5	U	U	ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U	U	ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U	U	ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U	U	ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U	U	ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U	U	ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U	U	ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U	U	ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U	U	ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U	U	ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U	U	ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U	U	ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U	U	ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U	U	ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U	U	ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U	U	ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U	U	ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U	U	ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U	U	ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U	U	ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U	U	ug/l	SW846 8260
Acetone	67-64-1	5	5	U	U	ug/l	SW846 8260
Benzene	71-43-2	5	5	U	U	ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U	U	ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U	U	ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U	U	ug/l	SW846 8260
Bromoform	75-25-2	5	5	U	U	ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U	U	ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U	U	ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U	U	ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U	U	ug/l	SW846 8260
Chloroform	67-66-3	5	5	U	U	ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U	U	ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U	U	ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U	U	ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U	U	ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U	U	ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U	U	ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U	U	ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U	U	ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U	U	ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U	U	ug/l	SW846 8260
n-propylbenzene	103-65-1	5	5	U	U	ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U	U	ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U	U	ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U	U	ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U	U	ug/l	SW846 8260
Styrene	100-42-5	5	5	U	U	ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U	U	ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U	U	ug/l	SW846 8260
Toluene	108-88-3	5	5	U	U	ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U	U	ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U	U	ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U	U	ug/l	SW846 8260

Location: NA
Sample ID: ER094 Depth: NA
COE Sample ID: FH009-ER094/05-07-98
Date Collected: 5/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
INORGANICS							
Arsenic	7440-38-2	2.9	2.9	U		ug/l	SW846 6010
Barium	7440-39-3	2.4	0.6	B		ug/l	SW846 6010
Cadmium	7440-43-9	0.3	0.3	U		ug/l	SW846 6010
Chromium	7440-47-3	0.73	0.7	B		ug/l	SW846 6010
Lead	7439-92-1	1.9	1.5	B		ug/l	SW846 6010
Mercury	7439-97-6	0.1	0.1	U		ug/l	SW846 7470
Selenium	7782-49-2	2.2	2.2	U		ug/l	SW846 7740
Silver	7440-22-4	1.4	1.4	U		ug/l	SW846 6010
SEMIVOLATILE ORGANICS							
1,2,4,5-Tetrachlorobenzene	95-94-3	10	10	U		ug/l	SW846 8270
1,2,4-Trichlorobenzene	120-82-1	10	10	U		ug/l	SW846 8270
1,2-Dichlorobenzene	95-50-1	10	10	U		ug/l	SW846 8270
1,3-Dichlorobenzene	541-73-1	10	10	U		ug/l	SW846 8270
1,4-Dichlorobenzene	106-46-7	10	10	U		ug/l	SW846 8270
2,2'-oxybis(1-chloropropane)	108-60-1	10	10	U		ug/l	SW846 8270
2,4,5-Trichlorophenol	95-95-4	50	50	U		ug/l	SW846 8270
2,4,6-Trichlorophenol	88-06-2	10	10	U		ug/l	SW846 8270
2,4-Dichlorophenol	120-83-2	10	10	U		ug/l	SW846 8270
2,4-Dimethylphenol	105-67-9	10	10	U		ug/l	SW846 8270
2,4-Dinitrophenol	51-28-5	50	50	U		ug/l	SW846 8270
2,4-Dinitrotoluene	121-14-2	10	10	U		ug/l	SW846 8270
2,6-Dinitrotoluene	606-20-2	10	10	U		ug/l	SW846 8270
2-Chloronaphthalene	91-58-7	10	10	U		ug/l	SW846 8270
2-Chlorophenol	95-57-8	10	10	U		ug/l	SW846 8270
2-Methylnaphthalene	91-57-6	10	10	U		ug/l	SW846 8270
2-Methylphenol	95-48-7	10	10	U		ug/l	SW846 8270
2-Nitroaniline	88-74-4	50	50	U		ug/l	SW846 8270
2-Nitrophenol	88-75-5	10	10	U		ug/l	SW846 8270
3,3'-Dichlorobenzidine	91-94-1	20	20	U		ug/l	SW846 8270
3-Nitroaniline	99-09-2	50	50	U		ug/l	SW846 8270
4,6-Dinitro-o-Cresol	534-52-1	50	50	U		ug/l	SW846 8270
4-Bromophenyl-phenyl Ether	101-55-3	10	10	U		ug/l	SW846 8270
4-chloro-3-methylphenol	59-50-7	10	10	U		ug/l	SW846 8270
4-Chloroaniline	106-47-8	10	10	U		ug/l	SW846 8270
4-Chlorophenyl-phenylether	7005-72-3	10	10	U		ug/l	SW846 8270
4-Methylphenol	106-44-5	10	10	U		ug/l	SW846 8270
4-Nitroaniline	100-01-6	50	50	U		ug/l	SW846 8270
4-Nitrophenol	100-02-7	50	50	U		ug/l	SW846 8270
Acenaphthene	83-32-9	10	10	U		ug/l	SW846 8270
Acenaphthylene	208-96-8	10	10	U		ug/l	SW846 8270
Anthracene	120-12-7	10	10	U		ug/l	SW846 8270
Benzo(a)anthracene	56-55-3	10	10	U		ug/l	SW846 8270
Benzo(a)pyrene	50-32-8	10	10	U		ug/l	SW846 8270
Benzo(b)fluoranthene	205-99-2	10	10	U		ug/l	SW846 8270
Benzo(g,h,i)perylene	191-24-2	10	10	U		ug/l	SW846 8270
Benzo(k)fluoranthene	207-08-9	10	10	U		ug/l	SW846 8270
Benzoic Acid	65-85-0	6	50	JB		ug/l	SW846 8270
Benzyl Alcohol	100-51-6	10	10	U		ug/l	SW846 8270
Bis(2-chloroethoxy)methane	111-91-1	10	10	U		ug/l	SW846 8270
Bis(2-chloroethyl)ether	111-44-4	10	10	U		ug/l	SW846 8270
Bis(2-ethylhexyl)phthalate	117-81-7	10	10	U		ug/l	SW846 8270
Butyl Benzyl Phthalate	85-68-7	10	10	U		ug/l	SW846 8270
Chrysene	218-01-9	10	10	U		ug/l	SW846 8270
Di-n-butyl Phthalate	84-74-2	5	10	JB		ug/l	SW846 8270
Di-n-octyl Phthalate	117-84-0	10	10	U		ug/l	SW846 8270
Dibenz(a,h)anthracene	53-70-3	10	10	U		ug/l	SW846 8270
Dibenzofuran	132-64-9	10	10	U		ug/l	SW846 8270
Diethyl Phthalate	84-66-2	10	10	U		ug/l	SW846 8270
Dimethyl Phthalate	131-11-3	10	10	U		ug/l	SW846 8270
Fluoranthene	206-44-0	10	10	U		ug/l	SW846 8270
Fluorene	86-73-7	10	10	U		ug/l	SW846 8270
Hexachlorobenzene	118-74-1	10	10	U		ug/l	SW846 8270

Location: NA
Sample ID: ER094 Depth: NA
COE Sample ID: FH009-ER094/05-07-98
Date Collected: 5/7/98

Parameter	CAS Number	Result	Detection Limit	Lab Qual	Data Qual	Units	Method
Hexachlorobutadiene	87-68-3	10	10	U		ug/l	SW846 8270
Hexachlorocyclopentadiene	77-47-4	10	10	U		ug/l	SW846 8270
Hexachloroethane	67-72-1	10	10	U		ug/l	SW846 8270
Indeno(1,2,3-cd)pyrene	193-39-5	10	10	U		ug/l	SW846 8270
Isophorone	78-59-1	10	10	U		ug/l	SW846 8270
N-Nitroso-di-n-propylamine	621-64-7	10	10	U		ug/l	SW846 8270
N-Nitrosodiphenylamine	86-30-6	10	10	U		ug/l	SW846 8270
Naphthalene	91-20-3	10	10	U		ug/l	SW846 8270
Nitrobenzene	98-95-3	10	10	U		ug/l	SW846 8270
Pentachlorophenol	87-86-5	50	50	U		ug/l	SW846 8270
Phenanthrene	85-01-8	10	10	U		ug/l	SW846 8270
Phenol	108-95-2	4	10	JB		ug/l	SW846 8270
Pyrene	129-00-0	10	10	U		ug/l	SW846 8270
Pyridine	110-86-1	10	10	U		ug/l	SW846 8270

VOLATILE ORGANICS

1,1,1,2-Tetrachloroethane	630-20-6	5	5	U		ug/l	SW846 8260
1,1,1-Trichloroethane	71-55-6	5	5	U		ug/l	SW846 8260
1,1,2,2-Tetrachloroethane	79-34-5	5	5	U		ug/l	SW846 8260
1,1,2-Trichloroethane	79-00-5	5	5	U		ug/l	SW846 8260
1,1-Dichloroethane	75-34-3	5	5	U		ug/l	SW846 8260
1,1-Dichloroethene	75-35-4	5	5	U		ug/l	SW846 8260
1,1-Dichloropropene	563-58-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichlorobenzene	87-61-6	5	5	U		ug/l	SW846 8260
1,2,3-Trichloropropane	96-18-4	5	5	U		ug/l	SW846 8260
1,2,4-Trichlorobenzene	120-82-1	5	5	U		ug/l	SW846 8260
1,2,4-trimethylbenzene	95-63-6	5	5	U		ug/l	SW846 8260
1,2-cis-Dichloroethene	156-59-2	5	5	U		ug/l	SW846 8260
1,2-dibromo-3-chloropropane	96-12-8	5	5	U		ug/l	SW846 8260
1,2-Dibromoethane	106-93-4	5	5	U		ug/l	SW846 8260
1,2-Dichlorobenzene	95-50-1	5	5	U		ug/l	SW846 8260
1,2-Dichloroethane	107-06-2	5	5	U		ug/l	SW846 8260
1,2-Dichloropropane	78-87-5	5	5	U		ug/l	SW846 8260
1,2-trans-Dichloroethene	156-60-5	5	5	U		ug/l	SW846 8260
1,3,5-trimethylbenzene	108-67-8	5	5	U		ug/l	SW846 8260
1,3-Dichlorobenzene	541-73-1	5	5	U		ug/l	SW846 8260
1,3-Dichloropropane	142-28-9	5	5	U		ug/l	SW846 8260
1,4-Dichlorobenzene	106-46-7	5	5	U		ug/l	SW846 8260
2,2-Dichloropropane	594-20-7	5	5	U		ug/l	SW846 8260
2-Butanone	78-93-3	5	5	U		ug/l	SW846 8260
2-Chlorotoluene	95-49-8	5	5	U		ug/l	SW846 8260
2-Hexanone	591-78-6	5	5	U		ug/l	SW846 8260
4-Chlorotoluene	106-43-4	5	5	U		ug/l	SW846 8260
4-Methyl-2-pentanone	108-10-1	5	5	U		ug/l	SW846 8260
Acetone	67-64-1	5	5	U		ug/l	SW846 8260
Benzene	71-43-2	5	5	U		ug/l	SW846 8260
Bromobenzene	108-86-1	5	5	U		ug/l	SW846 8260
Bromochloromethane	74-97-5	5	5	U		ug/l	SW846 8260
Bromodichloromethane	75-27-4	5	5	U		ug/l	SW846 8260
Bromoform	75-25-2	5	5	U		ug/l	SW846 8260
Bromomethane	74-83-9	5	5	U		ug/l	SW846 8260
Carbon Tetrachloride	56-23-5	5	5	U		ug/l	SW846 8260
Chlorobenzene	108-90-7	5	5	U		ug/l	SW846 8260
Chloroethane	75-00-3	5	5	U		ug/l	SW846 8260
Chloroform	67-66-3	5	5	U		ug/l	SW846 8260
Chloromethane	74-87-3	5	5	U		ug/l	SW846 8260
Dibromochloromethane	124-48-1	5	5	U		ug/l	SW846 8260
Dibromomethane	74-95-3	5	5	U		ug/l	SW846 8260
Dichlorodifluoromethane	75-71-8	5	5	U		ug/l	SW846 8260
Ethylbenzene	100-41-4	5	5	U		ug/l	SW846 8260
Hexachlorobutadiene	87-68-3	5	5	U		ug/l	SW846 8260
Isopropyl Benzene	98-82-8	5	5	U		ug/l	SW846 8260
m,p-Xylene	13-302-07	5	5	U		ug/l	SW846 8260
Methylene Chloride	75-09-2	5	5	U		ug/l	SW846 8260
n-Butylbenzene	104-51-8	5	5	U		ug/l	SW846 8260

Location: NA
Sample ID: ER094 Depth: NA
COE Sample ID: FH009-ER094/05-07-98
Date Collected: 5/7/98

<u>Parameter</u>	<u>CAS Number</u>	<u>Result</u>	<u>Detection Limit</u>	<u>Lab Qual</u>	<u>Data Qual</u>	<u>Units</u>	<u>Method</u>
n-propylbenzene	103-65-1	5	5	U		ug/l	SW846 8260
Naphthalene	91-20-3	5	5	U		ug/l	SW846 8260
o-Xylene	95-47-6	5	5	U		ug/l	SW846 8260
p-Isopropyltoluene	99-87-6	5	5	U		ug/l	SW846 8260
sec-Butylbenzene	135-98-8	5	5	U		ug/l	SW846 8260
Styrene	100-42-5	5	5	U		ug/l	SW846 8260
tert-Butylbenzene	98-06-6	5	5	U		ug/l	SW846 8260
Tetrachloroethene	127-18-4	5	5	U		ug/l	SW846 8260
Toluene	108-88-3	5	5	U		ug/l	SW846 8260
Trichloroethene	79-01-6	5	5	U		ug/l	SW846 8260
Trichlorofluoromethane	75-69-4	5	5	U		ug/l	SW846 8260
Vinyl Chloride	75-01-4	5	5	U		ug/l	SW846 8260

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.05

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17449.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 15

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	6	U
67-64-1-----	ACETONE	5	J
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	3	J
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.05

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17449.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 15

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
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96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123
Matrix: (soil/water) SOIL Lab Sample ID: 28123.05
Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10990.D
Level: (low/med) LOW Date Received: 01/10/97
% Moisture: not dec. 15 dec. Date Extracted: 01/10/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
100-51-6-----	Benzyl alcohol	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	bis(2-Chloroisopropyl)ether	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
65-85-0-----	Benzoic Acid	1900	U
111-91-1-----	bis(2-Chloroethoxy)methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P10990.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 15 dec.

Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenylphenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	780	U
56-55-3-----	Benzo(a)anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	390	U
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo(b)fluoranthene	390	U
207-08-9-----	Benzo(k)fluoranthene	390	U
50-32-8-----	Benzo(a)pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	390	U
53-70-3-----	Dibenz(a,h)anthracene	390	U
191-24-2-----	Benzo(g,h,i)perylene	390	U
110-86-1-----	Pyridine	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB101

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P10990.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 15 dec.

Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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95-9403-----	1,2,4,5-Tetrachlorobenzene__	390	U
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1
INORGANIC ANALYSES DATA SHEET

12305

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments :

CLIENT ID = 09SB101

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: SWL-TULSA

Contract: FT. HOOD

09SB102

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17450.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	8	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

09SB102

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17450.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	3	J
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB102

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P10991.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22 dec.

Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl)ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
100-51-6-----	Benzyl alcohol	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	bis(2-Chloroisopropyl)ether	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB102

Lab Name: SWL-TULSA Contract: FT HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123
Matrix: (soil/water) SOIL Lab Sample ID: 28123.06
Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10991.D
Level: (low/med) LOW Date Received: 01/10/97
% Moisture: not dec. 22 dec. Date Extracted: 01/10/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenylphenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	420	U
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U
110-86-1-----	Pyridine	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB102

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P10991.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 22 dec.

Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----1,2,4,5-Tetrachlorobenzene__	420	U
--	-----	---

1
INORGANIC ANALYSES DATA SHEET

12306

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments :

CLIENT ID = 09SB102

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB103

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17451.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 10

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	-----CHLOROMETHANE	6	U
74-83-9	-----BROMOMETHANE	6	U
75-01-4	-----VINYL CHLORIDE	6	U
75-00-3	-----CHLOROETHANE	6	U
75-09-2	-----METHYLENE CHLORIDE	3	J
67-64-1	-----ACETONE	16	
75-35-4	-----1 1-DICHLOROETHENE	6	U
75-34-3	-----1 1-DICHLOROETHANE	6	U
67-66-3	-----CHLOROFORM	6	U
107-06-2	-----1 2-DICHLOROETHANE	6	U
78-93-3	-----2-BUTANONE	6	U
71-55-6	-----1 1 1-TRICHLOROETHANE	6	U
56-23-5	-----CARBON TETRACHLORIDE	6	U
75-27-4	-----BROMODICHLOROMETHANE	6	U
78-87-5	-----1 2-DICHLOROPROPANE	6	U
79-01-6	-----TRICHLOROETHENE	6	U
124-48-1	-----DIBROMOCHLOROMETHANE	6	U
79-00-5	-----1 1 2-TRICHLOROETHANE	6	U
71-43-2	-----BENZENE	6	U
75-25-2	-----BROMOFORM	6	U
108-10-1	-----4-METHYL-2-PENTANONE	6	U
591-78-6	-----2-HEXANONE	6	U
127-18-4	-----TETRACHLOROETHENE	6	U
108-88-3	-----TOLUENE	4	J
79-34-5	-----1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	-----CHLOROBENZENE	6	U
100-41-4	-----ETHYL BENZENE	6	U
100-42-5	-----STYRENE	6	U
156-59-2	-----cis-1 2-DICHLOROETHENE	6	U
156-60-5	-----trans-1 2-DICHLOROETHENE	6	U
13-302-07	-----m,p-XYLENES	6	U
95-47-6	-----o-XYLENE	6	U
106-93-4	-----1 2-DIBROMOETHANE	6	U
630-20-6	-----1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

09SB103

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17451.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 10

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB103

b Name: SWL-TULSA Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10992.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 10 dec. Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

108-95-2-----	Phenol	370	U
111-44-4-----	bis(2-Chloroethyl)ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
100-51-6-----	Benzyl alcohol	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	bis(2-Chloroisopropyl)ether	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
65-85-0-----	Benzoic Acid	1800	U
111-91-1-----	bis(2-Chloroethoxy)methane	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	1800	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	1800	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB103

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28123

Matrix: (soil/water) SOIL Lab Sample ID: 28123.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P10992.D

Level: (low/med) LOW Date Received: 01/10/97

% Moisture: not dec. 10 dec. Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2-----	3-Nitroaniline	1800	U
83-32-9-----	Acenaphthene	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenylphenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	370	U
120-12-7-----	Anthracene	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	730	U
56-55-3-----	Benzo(a)anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	40	J
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenz(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U
110-86-1-----	Pyridine	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB103

b Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28123

Matrix: (soil/water) SOIL

Lab Sample ID: 28123.07

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P10992.D

Level: (low/med) LOW

Date Received: 01/10/97

% Moisture: not dec. 10 dec.

Date Extracted: 01/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/15/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene__

370

U

1

INORGANIC ANALYSES DATA SHEET

12307

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: 28123 SAS No.: _____ SDG No.: 28123A
Matrix (soil/water): SOIL_____ Lab Sample ID: 28123.07_____
Level (low/med): LOW_____ Date Received: 01/10/97_____
% Solids: 89.7_____

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: GREY _____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW _____ Clarity After: _____ Artifacts: _____

CLIENT ID = 09SB103

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.03

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17469.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 11

Date Analyzed: 01/17/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	17	
67-64-1-----	ACETONE	6	J
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 23145.03

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17469.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 11

Date Analyzed: 01/17/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
---------	----------	---

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

Name: SWL-TULSA Contract: FT. HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145
 Matrix: (soil/water) SOIL Lab Sample ID: 28145.03
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11072.D
 Level: (low/med) LOW Date Received: 01/11/97
 % Moisture: not dec. 11 dec. Date Extracted: 01/13/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/17/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	370	U
111-44-4-----	bis(2-Chloroethyl)ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
100-51-6-----	Benzyl alcohol	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	bis(2-Chloroisopropyl)ether	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
65-85-0-----	Benzoic Acid	1800	U
111-91-1-----	bis(2-Chloroethoxy)methane	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	1800	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	1800	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

b Name: SWL-TULSA Contract: FT. HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145

Matrix: (soil/water) SOIL Lab Sample ID: 28145.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11072.D

Level: (low/med) LOW Date Received: 01/11/97

% Moisture: not dec. 11 dec. Date Extracted: 01/13/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/17/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1800	U
83-32-9-----	Acenaphthene	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenylphenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	370	U
120-12-7-----	Anthracene	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	740	U
56-55-3-----	Benzo(a)anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	370	U
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenz(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U
110-86-1-----	Pyridine	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB104

Name: SWL-TULSA Contract: FT. HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145
 Matrix: (soil/water) SOIL Lab Sample ID: 28145.03
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11072.D
 Level: (low/med) LOW Date Received: 01/11/97
 % Moisture: not dec. 11 dec. Date Extracted: 01/13/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/17/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	370	U

1
INORGANIC ANALYSES DATA SHEET

14503

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: 28145 SAS No.: _____ SDG No.: 28145_____
Matrix (soil/water): SOIL_____ Lab Sample ID: 28145.03_____
Level (low/med): LOW_____ Date Received: 01/11/97_____
% Solids: 89.2_____

[illegible]

Color Before: GREY _____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW _____ Clarity After: _____ Artifacts: _____

Comments :

CLIENT ID = 09SB104

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB105

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17456.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 10

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	6	U
67-64-1-----	ACETONE	3	J
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE N

09SB105

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: K17456.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 10

Date Analyzed: 01/16/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB105

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11153.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 11 dec.

Date Extracted: 01/20/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/22/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.6

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	370	U
111-44-4-----	bis(2-Chloroethyl)ether	370	U
95-57-8-----	2-Chlorophenol	370	U
541-73-1-----	1,3-Dichlorobenzene	370	U
106-46-7-----	1,4-Dichlorobenzene	370	U
100-51-6-----	Benzyl alcohol	370	U
95-50-1-----	1,2-Dichlorobenzene	370	U
95-48-7-----	2-Methylphenol	370	U
108-60-1-----	bis(2-Chloroisopropyl)ether	370	U
106-44-5-----	4-Methylphenol	370	U
621-64-7-----	N-Nitroso-di-n-propylamine	370	U
67-72-1-----	Hexachloroethane	370	U
98-95-3-----	Nitrobenzene	370	U
78-59-1-----	Isophorone	370	U
88-75-5-----	2-Nitrophenol	370	U
105-67-9-----	2,4-Dimethylphenol	370	U
65-85-0-----	Benzoic Acid	1800	U
111-91-1-----	bis(2-Chloroethoxy)methane	370	U
120-83-2-----	2,4-Dichlorophenol	370	U
120-82-1-----	1,2,4-Trichlorobenzene	370	U
91-20-3-----	Naphthalene	370	U
106-47-8-----	4-Chloroaniline	370	U
87-68-3-----	Hexachlorobutadiene	370	U
59-50-7-----	4-Chloro-3-methylphenol	370	U
91-57-6-----	2-Methylnaphthalene	370	U
77-47-4-----	Hexachlorocyclopentadiene	370	U
88-06-2-----	2,4,6-Trichlorophenol	370	U
95-95-4-----	2,4,5-Trichlorophenol	1800	U
91-58-7-----	2-Chloronaphthalene	370	U
88-74-4-----	2-Nitroaniline	1800	U
131-11-3-----	Dimethylphthalate	370	U
208-96-8-----	Acenaphthylene	370	U
606-20-2-----	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB105

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28145

Matrix: (soil/water) SOIL

Lab Sample ID: 28145.02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11153.D

Level: (low/med) LOW

Date Received: 01/11/97

% Moisture: not dec. 11 dec.

Date Extracted: 01/20/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 01/22/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1800	U
83-32-9-----	Acenaphthene	370	U
121-14-2-----	2,4-Dinitrotoluene	370	U
51-28-5-----	2,4-Dinitrophenol	1800	U
100-02-7-----	4-Nitrophenol	1800	U
132-64-9-----	Dibenzofuran	370	U
84-66-2-----	Diethylphthalate	370	U
7005-72-3-----	4-Chlorophenyl-phenylether	370	U
86-73-7-----	Fluorene	370	U
100-01-6-----	4-Nitroaniline	1800	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800	U
86-30-6-----	N-Nitrosodiphenylamine (1)	370	U
101-55-3-----	4-Bromophenylphenylether	370	U
118-74-1-----	Hexachlorobenzene	370	U
87-86-5-----	Pentachlorophenol	1800	U
85-01-8-----	Phenanthrene	370	U
120-12-7-----	Anthracene	370	U
84-74-2-----	Di-n-butylphthalate	370	U
206-44-0-----	Fluoranthene	370	U
129-00-0-----	Pyrene	370	U
85-68-7-----	Butylbenzylphthalate	370	U
91-94-1-----	3,3'-Dichlorobenzidine	740	U
56-55-3-----	Benzo(a)anthracene	370	U
218-01-9-----	Chrysene	370	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	370	U
117-84-0-----	Di-n-octylphthalate	370	U
205-99-2-----	Benzo(b)fluoranthene	370	U
207-08-9-----	Benzo(k)fluoranthene	370	U
50-32-8-----	Benzo(a)pyrene	370	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370	U
53-70-3-----	Dibenz(a,h)anthracene	370	U
191-24-2-----	Benzo(g,h,i)perylene	370	U
110-86-1-----	Pyridine	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB105

b Name: SWL-TULSA Contract: FT. HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28145
 Matrix: (soil/water) SOIL Lab Sample ID: 28145.02
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11153.D
 Level: (low/med) LOW Date Received: 01/11/97
 % Moisture: not dec. 11 dec. Date Extracted: 01/20/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 01/22/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 7.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	370	U

1

INORGANIC ANALYSES DATA SHEET

14502

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: GREY
Color After: YELLOW

Clarity Before: _____
Clarity After: _____

Texture: MEDIUM
Artifacts: _____

Comments :

CLIENT ID = 09SB105

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB106

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.11

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23775.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	17	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB106

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.11

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23775.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
96-18-4-----1 2 3-	TRICHLOROPROPANE	6	U
75-71-8-----	DICHLORODIFLUOROMETHANE	6	U
75-69-4-----	TRICHLOROFLUOROMETHANE	6	U
74-95-3-----	DIBROMOMETHANE	6	U
96-12-8-----1 2-	DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----	BROMOBENZENE	6	U
104-51-8-----	n-BUTYLBENZENE	6	U
98-06-6-----	tert-BUTYLBENZENE	6	U
135-98-8-----	sec-BUTYLBENZENE	6	U
95-49-8-----	2-CHLOROTOLUENE	6	U
106-43-4-----	4-CHLOROTOLUENE	6	U
95-50-1-----1 2-	DICHLOROBENZENE	6	U
541-73-1-----1 3-	DICHLOROBENZENE	6	U
106-46-7-----1 4-	DICHLOROBENZENE	6	U
142-28-9-----1 3-	DICHLOROPROPANE	6	U
594-20-7-----2 2-	DICHLOROPROPANE	6	U
563-58-6-----1 1-	DICHLOROPROPENE	6	U
87-68-3-----	HEXACHLOROBUTADIENE	6	U
98-82-8-----	ISOPROPYLBENZENE	6	U
99-87-6-----p-	ISOPROPYLTOLUENE	6	U
91-20-3-----	NAPHTHALENE	6	U
103-65-1-----n-	PROPYLBENZENE	6	U
87-61-6-----1 2 3-	TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-	TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-	TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-	TRIMETHYLBENZENE	6	U
74-97-5-----	BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB106

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5117.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 18 dec. Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
---------	----------	-----------------------	---

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
100-51-6-----	Benzyl alcohol	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	bis(2-Chloroisopropyl)ether	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB106

Lab Name: SWL-TULSA Contract: FT.HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
Matrix: (soil/water) SOIL Lab Sample ID: 28743.11
Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5117.D
Level: (low/med) LOW Date Received: 03/07/97
% Moisture: not dec. 18 dec. Date Extracted: 03/07/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenylphenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	400	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U
110-86-1-----	Pyridine	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB106

Lab Name: SWL-TULSA Contract: FT.HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
Matrix: (soil/water) SOIL Lab Sample ID: 28743.11
Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5117.D
Level: (low/med) LOW Date Received: 03/07/97
% Moisture: not dec. 18 dec. Date Extracted: 03/07/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	400	U

1

INORGANIC ANALYSES DATA SHEET

74311

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Comments :

CLIENT ID = 09SB106

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB107

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.12

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23755.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 15

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	J
67-64-1	ACETONE	11	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB107

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.12

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23755.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 15

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB107

Lab Name: SWL-TULSA Contract: FT.HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
Matrix: (soil/water) SOIL Lab Sample ID: 28743.12
Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5118.D
Level: (low/med) LOW Date Received: 03/07/97
% Moisture: not dec. 15 dec. Date Extracted: 03/07/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
100-51-6-----	Benzyl alcohol	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	bis(2-Chloroisopropyl)ether	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
65-85-0-----	Benzoic Acid	1900	U
111-91-1-----	bis(2-Chloroethoxy)methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB107

Lab Name: SWL-TULSA

Contract: FT.HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.12

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: M5118.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 15 dec.

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenylphenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	780	U
56-55-3-----	Benzo(a)anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	390	U
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo(b)fluoranthene	390	U
207-08-9-----	Benzo(k)fluoranthene	390	U
50-32-8-----	Benzo(a)pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	390	U
53-70-3-----	Dibenz(a,h)anthracene	390	U
191-24-2-----	Benzo(g,h,i)perylene	390	U
110-86-1-----	Pyridine	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB107

Lab Name: SWL-TULSA Contract: FT.HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743

Matrix: (soil/water) SOIL Lab Sample ID: 28743.12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5118.D

Level: (low/med) LOW Date Received: 03/07/97

% Moisture: not dec. 15 dec. Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	390	U

1

INORGANIC ANALYSES DATA SHEET

74312

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB107

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB108

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.13

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23756.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 7

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	6	
67-64-1	ACETONE	36	
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB108

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.13

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23756.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 7

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
96-18-4-----1 2 3-	TRICHLOROPROPANE	5	U
75-71-8-----	DICHLORODIFLUOROMETHANE	5	U
75-69-4-----	TRICHLOROFLUOROMETHANE	5	U
74-95-3-----	DIBROMOMETHANE	5	U
96-12-8-----1 2-	DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----	BROMOBENZENE	5	U
104-51-8-----n-	BUTYLBENZENE	5	U
98-06-6-----tert-	BUTYLBENZENE	5	U
135-98-8-----sec-	BUTYLBENZENE	5	U
95-49-8-----2-	CHLOROTOLUENE	5	U
106-43-4-----4-	CHLOROTOLUENE	5	U
95-50-1-----1 2-	DICHLOROBENZENE	5	U
541-73-1-----1 3-	DICHLOROBENZENE	5	U
106-46-7-----1 4-	DICHLOROBENZENE	5	U
142-28-9-----1 3-	DICHLOROPROPANE	5	U
594-20-7-----2 2-	DICHLOROPROPANE	5	U
563-58-6-----1 1-	DICHLOROPROPENE	5	U
87-68-3-----	HEXACHLOROBUTADIENE	5	U
98-82-8-----	ISOPROPYLBENZENE	5	U
99-87-6-----p-	ISOPROPYLTOLUENE	5	U
91-20-3-----	NAPHTHALENE	5	U
103-65-1-----n-	PROPYLBENZENE	5	U
87-61-6-----1 2 3-	TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-	TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-	TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-	TRIMETHYLBENZENE	5	U
74-97-5-----	BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB108

Lab Name: SWL-TULSA Contract: FT.HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
Matrix: (soil/water) SOIL Lab Sample ID: 28743.13
Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5119.D
Level: (low/med) LOW Date Received: 03/07/97
% Moisture: not dec. 7 dec. Date Extracted: 03/07/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	350	U
111-44-4-----	bis(2-Chloroethyl)ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
100-51-6-----	Benzyl alcohol	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	bis(2-Chloroisopropyl)ether	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
65-85-0-----	Benzoic Acid	1700	U
111-91-1-----	bis(2-Chloroethoxy)methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB108

Lab Name: SWL-TULSA Contract: FT.HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
Matrix: (soil/water) SOIL Lab Sample ID: 28743.13
Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5119.D
Level: (low/med) LOW Date Received: 03/07/97
% Moisture: not dec. 7 dec. Date Extracted: 03/07/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenylphenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	710	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
110-86-1-----	Pyridine	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB108

b Name: SWL-TULSA Contract: FT.HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28743
 Matrix: (soil/water) SOIL Lab Sample ID: 28743.13
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: M5119.D
 Level: (low/med) LOW Date Received: 03/07/97
 % Moisture: not dec. 7 dec. Date Extracted: 03/07/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/12/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	350	U

1

INORGANIC ANALYSES DATA SHEET

74313

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB108

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23778.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	6	U
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	2	J
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23778.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	5	J
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11537.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 18 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
100-51-6-----	Benzyl alcohol	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	bis(2-Chloroisopropyl)ether	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

o Name: SWL-TULSA Contract: FT. HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753
Matrix: (soil/water) SOIL Lab Sample ID: 28753.02
Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11537.D
Level: (low/med) LOW Date Received: 03/08/97
% Moisture: not dec. 18 dec. Date Extracted: 03/10/97
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 8.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenylphenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	400	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U
110-86-1-----	Pyridine	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB109

Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.02

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11537.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 18 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----	1,2,4,5-Tetrachlorobenzene__	400	U
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1

INORGANIC ANALYSES DATA SHEET

75302

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB109

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.03

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23761.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 24

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	8	U
67-64-1-----	ACETONE	29	
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.03

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23761.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 24

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

Name: SWL-TULSA Contract: FT. HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753
 Matrix: (soil/water) SOIL Lab Sample ID: 28753.03
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11538.D
 Level: (low/med) LOW Date Received: 03/08/97
 % Moisture: not dec. 23 dec. Date Extracted: 03/10/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 8.4 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl)ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
100-51-6-----	Benzyl alcohol	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	bis(2-Chloroisopropyl)ether	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-di-n-propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
65-85-0-----	Benzoic Acid	2100	U
111-91-1-----	bis(2-Chloroethoxy)methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-8-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	430	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	2100	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethylphthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.03

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11538.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 23 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.4

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenylphenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
84-74-2-----	Di-n-butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	860	U
56-55-3-----	Benzo(a)anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	430	U
117-84-0-----	Di-n-octylphthalate	430	U
205-99-2-----	Benzo(b)fluoranthene	430	U
207-08-9-----	Benzo(k)fluoranthene	430	U
50-32-8-----	Benzo(a)pyrene	430	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	430	U
53-70-3-----	Dibenz(a,h)anthracene	430	U
191-24-2-----	Benzo(g,h,i)perylene	430	U
110-86-1-----	Pyridine	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB110

Site Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.03

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11538.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 23 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.4

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----1,2,4,5-Tetrachlorobenzene__	430	U
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1

INORGANIC ANALYSES DATA SHEET

75303

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: _____ SAS No.: _____ SDG No.: 28753A
Matrix (soil/water): SOIL_____ Lab Sample ID: 28753.03
Level (low/med): LOW_____ Date Received: 03/08/97
% Solids: 76.5

[illegible]

Color Before: BROWN_____ Clarity Before: _____ Texture: MEDIUM
Color After: YELLOW_____ Clarity After: CLEAR_____ Artifacts: _____

CLIENT ID = 09SB110

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23762.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 20

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	4	J
67-64-1-----	ACETONE	12	
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23762.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 20

Date Analyzed: 03/12/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
---------	----------	---

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11539.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 20 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	410	U
111-44-4-----	bis(2-Chloroethyl)ether	410	U
95-57-8-----	2-Chlorophenol	410	U
541-73-1-----	1,3-Dichlorobenzene	410	U
106-46-7-----	1,4-Dichlorobenzene	410	U
100-51-6-----	Benzyl alcohol	410	U
95-50-1-----	1,2-Dichlorobenzene	410	U
95-48-7-----	2-Methylphenol	410	U
108-60-1-----	bis(2-Chloroisopropyl)ether	410	U
106-44-5-----	4-Methylphenol	410	U
621-64-7-----	N-Nitroso-di-n-propylamine	410	U
67-72-1-----	Hexachloroethane	410	U
98-95-3-----	Nitrobenzene	410	U
78-59-1-----	Isophorone	410	U
88-75-5-----	2-Nitrophenol	410	U
105-67-9-----	2,4-Dimethylphenol	410	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	410	U
120-83-2-----	2,4-Dichlorophenol	410	U
120-82-1-----	1,2,4-Trichlorobenzene	410	U
91-20-3-----	Naphthalene	410	U
106-47-8-----	4-Chloroaniline	410	U
87-68-3-----	Hexachlorobutadiene	410	U
59-50-7-----	4-Chloro-3-methylphenol	410	U
91-57-6-----	2-Methylnaphthalene	410	U
77-47-4-----	Hexachlorocyclopentadiene	410	U
88-06-2-----	2,4,6-Trichlorophenol	410	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	410	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	410	U
208-96-8-----	Acenaphthylene	410	U
606-20-2-----	2,6-Dinitrotoluene	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11539.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 20 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenylphenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	410	U
120-12-7-----	Anthracene	410	U
84-74-2-----	Di-n-butylphthalate	410	U
206-44-0-----	Fluoranthene	410	U
129-00-0-----	Pyrene	410	U
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	820	U
56-55-3-----	Benzo(a)anthracene	410	U
218-01-9-----	Chrysene	410	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	410	U
117-84-0-----	Di-n-octylphthalate	410	U
205-99-2-----	Benzo(b)fluoranthene	410	U
207-08-9-----	Benzo(k)fluoranthene	410	U
50-32-8-----	Benzo(a)pyrene	410	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	410	U
53-70-3-----	Dibenz(a,h)anthracene	410	U
191-24-2-----	Benzo(g,h,i)perylene	410	U
110-86-1-----	Pyridine	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB111

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.04

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11539.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 20 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.3

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene__

410

U

1
INORGANIC ANALYSES DATA SHEET

75304

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB111

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB112

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23779.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 7

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	5	U
74-83-9-----	BROMOMETHANE	5	U
75-01-4-----	VINYL CHLORIDE	5	U
75-00-3-----	CHLOROETHANE	5	U
75-09-2-----	METHYLENE CHLORIDE	5	U
67-64-1-----	ACETONE	46	U
75-35-4-----	1 1-DICHLOROETHENE	5	U
75-34-3-----	1 1-DICHLOROETHANE	5	U
67-66-3-----	CHLOROFORM	5	U
107-06-2-----	1 2-DICHLOROETHANE	5	U
78-93-3-----	2-BUTANONE	5	U
71-55-6-----	1 1 1-TRICHLOROETHANE	5	U
56-23-5-----	CARBON TETRACHLORIDE	5	U
75-27-4-----	BROMODICHLOROMETHANE	5	U
78-87-5-----	1 2-DICHLOROPROPANE	5	U
79-01-6-----	TRICHLOROETHENE	5	U
124-48-1-----	DIBROMOCHLOROMETHANE	5	U
79-00-5-----	1 1 2-TRICHLOROETHANE	5	U
71-43-2-----	BENZENE	5	U
75-25-2-----	BROMOFORM	5	U
108-10-1-----	4-METHYL-2-PENTANONE	5	U
591-78-6-----	2-HEXANONE	5	U
127-18-4-----	TETRACHLOROETHENE	5	U
108-88-3-----	TOLUENE	5	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7-----	CHLOROBENZENE	5	U
100-41-4-----	ETHYL BENZENE	5	U
100-42-5-----	STYRENE	5	U
156-59-2-----	cis-1 2-DICHLOROETHENE	5	U
156-60-5-----	trans-1 2-DICHLOROETHENE	5	U
13-302-07-----	m,p-XYLENES	5	U
95-47-6-----	o-XYLENE	5	U
106-93-4-----	1 2-DIBROMOETHANE	5	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB112

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23779.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 7

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q
---------	----------	---

96-18-4-----1 2 3-TRICHLOROPROPANE	5	U
75-71-8-----DICHLORODIFLUOROMETHANE	5	U
75-69-4-----TRICHLOROFLUOROMETHANE	5	U
74-95-3-----DIBROMOMETHANE	5	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----BROMOBENZENE	5	U
104-51-8-----n-BUTYLBENZENE	5	U
98-06-6-----tert-BUTYLBENZENE	5	U
135-98-8-----sec-BUTYLBENZENE	5	U
95-49-8-----2-CHLOROTOLUENE	5	U
106-43-4-----4-CHLOROTOLUENE	5	U
95-50-1-----1 2-DICHLOROBENZENE	5	U
541-73-1-----1 3-DICHLOROBENZENE	5	U
106-46-7-----1 4-DICHLOROBENZENE	5	U
142-28-9-----1 3-DICHLOROPROPANE	5	U
594-20-7-----2 2-DICHLOROPROPANE	5	U
563-58-6-----1 1-DICHLOROPROPENE	5	U
87-68-3-----HEXACHLOROBUTADIENE	5	U
98-82-8-----ISOPROPYLBENZENE	5	U
99-87-6-----p-ISOPROPYLTOLUENE	5	U
91-20-3-----NAPHTHALENE	5	U
103-65-1-----n-PROPYLBENZENE	5	U
87-61-6-----1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB112

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11540.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 7 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	350	U
111-44-4-----	bis(2-Chloroethyl)ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
100-51-6-----	Benzyl alcohol	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	bis(2-Chloroisopropyl)ether	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
65-85-0-----	Benzoic Acid	1700	U
111-91-1-----	bis(2-Chloroethoxy)methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB112

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.05

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11540.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 7 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenylphenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	710	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
110-86-1-----	Pyridine	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB112

b Name: SWL-TULSA Contract: FT. HOOD
 Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28753
 Matrix: (soil/water) SOIL Lab Sample ID: 28753.05
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: P11540.D
 Level: (low/med) LOW Date Received: 03/08/97
 % Moisture: not dec. 7 dec. Date Extracted: 03/10/97
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 03/11/97
 Concentrated Extract Volume: 1000(uL)
 GPC Cleanup: (Y/N) N pH: 8.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-9403-----	1,2,4,5-Tetrachlorobenzene	350	U

1
INORGANIC ANALYSES DATA SHEET

75305

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB112

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23780.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	6	U
67-64-1-----	ACETONE	63	
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23780.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBEZENE	6	U
541-73-1-----1 3-DICHLOROBEZENE	6	U
106-46-7-----1 4-DICHLOROBEZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBEZENE	6	U
120-82-1-----1 2 4-TRICHLOROBEZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113

o Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11541.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl)ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
100-51-6-----	Benzyl alcohol	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	bis(2-Chloroisopropyl)ether	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11541.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenylphenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	160	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U
110-86-1-----	Pyridine	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11541.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----1,2,4,5-Tetrachlorobenzene__	420	U
--	-----	---

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113RE

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06RA

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11558.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	420	U
111-44-4-----	bis(2-Chloroethyl)ether	420	U
95-57-8-----	2-Chlorophenol	420	U
541-73-1-----	1,3-Dichlorobenzene	420	U
106-46-7-----	1,4-Dichlorobenzene	420	U
100-51-6-----	Benzyl alcohol	420	U
95-50-1-----	1,2-Dichlorobenzene	420	U
95-48-7-----	2-Methylphenol	420	U
108-60-1-----	bis(2-Chloroisopropyl)ether	420	U
106-44-5-----	4-Methylphenol	420	U
621-64-7-----	N-Nitroso-di-n-propylamine	420	U
67-72-1-----	Hexachloroethane	420	U
98-95-3-----	Nitrobenzene	420	U
78-59-1-----	Isophorone	420	U
88-75-5-----	2-Nitrophenol	420	U
105-67-9-----	2,4-Dimethylphenol	420	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	420	U
120-83-2-----	2,4-Dichlorophenol	420	U
120-82-1-----	1,2,4-Trichlorobenzene	420	U
91-20-3-----	Naphthalene	420	U
106-47-8-----	4-Chloroaniline	420	U
87-68-3-----	Hexachlorobutadiene	420	U
59-50-7-----	4-Chloro-3-methylphenol	420	U
91-57-6-----	2-Methylnaphthalene	420	U
77-47-4-----	Hexachlorocyclopentadiene	420	U
88-06-2-----	2,4,6-Trichlorophenol	420	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	420	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	420	U
208-96-8-----	Acenaphthylene	420	U
606-20-2-----	2,6-Dinitrotoluene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113RE

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06RA

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11558.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenylphenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	420	U
120-12-7-----	Anthracene	420	U
84-74-2-----	Di-n-butylphthalate	420	U
206-44-0-----	Fluoranthene	420	U
129-00-0-----	Pyrene	420	U
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	850	U
56-55-3-----	Benzo(a)anthracene	420	U
218-01-9-----	Chrysene	420	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	170	J
117-84-0-----	Di-n-octylphthalate	420	U
205-99-2-----	Benzo(b)fluoranthene	420	U
207-08-9-----	Benzo(k)fluoranthene	420	U
50-32-8-----	Benzo(a)pyrene	420	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	420	U
53-70-3-----	Dibenz(a,h)anthracene	420	U
191-24-2-----	Benzo(g,h,i)perylene	420	U
110-86-1-----	Pyridine	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB113RE

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.06RA

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11558.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 22 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene__

420

U

1

INORGANIC ANALYSES DATA SHEET

75306

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: _____ SAS No.: _____ SDG No.: 28753A
Matrix (soil/water): SOIL_____ Lab Sample ID: 28753.06
Level (low/med): LOW_____ Date Received: 03/08/97
% Solids: 77.7

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB113

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB114

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23801.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16

Date Analyzed: 03/18/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	6	U
67-64-1-----	ACETONE	24	
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB114

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23801.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16

Date Analyzed: 03/18/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1	2 3-TRICHLOROPROPANE	6	U
75-71-8-----	DICHLORODIFLUOROMETHANE	6	U
75-69-4-----	TRICHLOROFLUOROMETHANE	6	U
74-95-3-----	DIBROMOMETHANE	6	U
96-12-8-----1	2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----	BROMOBENZENE	6	U
104-51-8-----	n-BUTYLBENZENE	6	U
98-06-6-----	tert-BUTYLBENZENE	6	U
135-98-8-----	sec-BUTYLBENZENE	6	U
95-49-8-----	2-CHLOROTOLUENE	6	U
106-43-4-----	4-CHLOROTOLUENE	6	U
95-50-1-----1	2-DICHLOROBENZENE	6	U
541-73-1-----1	3-DICHLOROBENZENE	6	U
106-46-7-----1	4-DICHLOROBENZENE	6	U
142-28-9-----1	3-DICHLOROPROPANE	6	U
594-20-7-----2	2-DICHLOROPROPANE	6	U
563-58-6-----1	1-DICHLOROPROPENE	6	U
87-68-3-----	HEXACHLOROBUTADIENE	6	U
98-82-8-----	ISOPROPYLBENZENE	6	U
99-87-6-----	p-ISOPROPYLTOLUENE	6	U
91-20-3-----	NAPHTHALENE	6	U
103-65-1-----	n-PROPYLBENZENE	6	U
87-61-6-----1	2 3-TRICHLOROBENZENE	6	U
120-82-1-----1	2 4-TRICHLOROBENZENE	6	U
95-63-6-----1	2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1	3 5-TRIMETHYLBENZENE	6	U
74-97-5-----	BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB114

Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11542.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	390	U
111-44-4-----	bis(2-Chloroethyl)ether	390	U
95-57-8-----	2-Chlorophenol	390	U
541-73-1-----	1,3-Dichlorobenzene	390	U
106-46-7-----	1,4-Dichlorobenzene	390	U
100-51-6-----	Benzyl alcohol	390	U
95-50-1-----	1,2-Dichlorobenzene	390	U
95-48-7-----	2-Methylphenol	390	U
108-60-1-----	bis(2-Chloroisopropyl)ether	390	U
106-44-5-----	4-Methylphenol	390	U
621-64-7-----	N-Nitroso-di-n-propylamine	390	U
67-72-1-----	Hexachloroethane	390	U
98-95-3-----	Nitrobenzene	390	U
78-59-1-----	Isophorone	390	U
88-75-5-----	2-Nitrophenol	390	U
105-67-9-----	2,4-Dimethylphenol	390	U
65-85-0-----	Benzoic Acid	1900	U
111-91-1-----	bis(2-Chloroethoxy)methane	390	U
120-83-2-----	2,4-Dichlorophenol	390	U
120-82-1-----	1,2,4-Trichlorobenzene	390	U
91-20-3-----	Naphthalene	390	U
106-47-8-----	4-Chloroaniline	390	U
87-68-3-----	Hexachlorobutadiene	390	U
59-50-7-----	4-Chloro-3-methylphenol	390	U
91-57-6-----	2-Methylnaphthalene	390	U
77-47-4-----	Hexachlorocyclopentadiene	390	U
88-06-2-----	2,4,6-Trichlorophenol	390	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	390	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	390	U
208-96-8-----	Acenaphthylene	390	U
606-20-2-----	2,6-Dinitrotoluene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB114

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11542.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	390	U
121-14-2-----	2,4-Dinitrotoluene	390	U
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	390	U
84-66-2-----	Diethylphthalate	390	U
7005-72-3-----	4-Chlorophenyl-phenylether	390	U
86-73-7-----	Fluorene	390	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	390	U
101-55-3-----	4-Bromophenylphenylether	390	U
118-74-1-----	Hexachlorobenzene	390	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	390	U
120-12-7-----	Anthracene	390	U
84-74-2-----	Di-n-butylphthalate	390	U
206-44-0-----	Fluoranthene	390	U
129-00-0-----	Pyrene	390	U
85-68-7-----	Butylbenzylphthalate	390	U
91-94-1-----	3,3'-Dichlorobenzidine	780	U
56-55-3-----	Benzo(a)anthracene	390	U
218-01-9-----	Chrysene	390	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	390	U
117-84-0-----	Di-n-octylphthalate	390	U
205-99-2-----	Benzo(b)fluoranthene	390	U
207-08-9-----	Benzo(k)fluoranthene	390	U
50-32-8-----	Benzo(a)pyrene	390	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	390	U
53-70-3-----	Dibenz(a,h)anthracene	390	U
191-24-2-----	Benzo(g,h,i)perylene	390	U
110-86-1-----	Pyridine	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB114

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.07

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11542.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 16 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.6

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

95-9403-----1,2,4,5-Tetrachlorobenzene

390

U

1
INORGANIC ANALYSES DATA SHEET

75307

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: _____ SAS No.: _____ SDG No.: 28753A
Matrix (soil/water): SOIL_____ Lab Sample ID: 28753.07
Level (low/med): LOW_____ Date Received: 03/08/97
% Solids: 83.7

[illegible]

Color Before: BROWN
Color After: YELLOW

Clarity Before: _____
Clarity After: CLEAR

Texture: MEDIUM
Artifacts:

Comments :

CLIENT ID = 09SB114

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB115

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23782.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 6

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	46	
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB115

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23782.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 6

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

96-18-4-----1 2 3-TRICHLOROPROPANE	5	U
75-71-8-----DICHLORODIFLUOROMETHANE	5	U
75-69-4-----TRICHLOROFLUOROMETHANE	5	U
74-95-3-----DIBROMOMETHANE	5	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----BROMOBENZENE	5	U
104-51-8-----n-BUTYLBENZENE	5	U
98-06-6-----tert-BUTYLBENZENE	5	U
135-98-8-----sec-BUTYLBENZENE	5	U
95-49-8-----2-CHLOROTOLUENE	5	U
106-43-4-----4-CHLOROTOLUENE	5	U
95-50-1-----1 2-DICHLOROBENZENE	5	U
541-73-1-----1 3-DICHLOROBENZENE	5	U
106-46-7-----1 4-DICHLOROBENZENE	5	U
142-28-9-----1 3-DICHLOROPROPANE	5	U
594-20-7-----2 2-DICHLOROPROPANE	5	U
563-58-6-----1 1-DICHLOROPROPENE	5	U
87-68-3-----HEXACHLOROBUTADIENE	5	U
98-82-8-----ISOPROPYLBENZENE	5	U
99-87-6-----p-ISOPROPYLTOLUENE	5	U
91-20-3-----NAPHTHALENE	5	U
103-65-1-----n-PROPYLBENZENE	5	U
87-61-6-----1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB115

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11543.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 6 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.2

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	350	U
111-44-4-----	bis(2-Chloroethyl)ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
100-51-6-----	Benzyl alcohol	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	bis(2-Chloroisopropyl)ether	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
65-85-0-----	Benzoic Acid	1700	U
111-91-1-----	bis(2-Chloroethoxy)methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB115

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11543.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 6 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.2

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenylphenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	700	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
110-86-1-----	Pyridine	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB115

b Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28753

Matrix: (soil/water) SOIL

Lab Sample ID: 28753.08

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: P11543.D

Level: (low/med) LOW

Date Received: 03/08/97

% Moisture: not dec. 6 dec.

Date Extracted: 03/10/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/11/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.2

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----	1,2,4,5-Tetrachlorobenzene		
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350

U

1

INORGANIC ANALYSES DATA SHEET

75308

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____
Lab Code: SWOK_____ Case No.: _____ SAS No.: _____ SDG No.: 28753A
Matrix (soil/water): SOIL_____ Lab Sample ID: 28753.08
Level (low/med): LOW_____ Date Received: 03/08/97
% Solids: 94.4

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = 09SB115

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB116

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C26086.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 10

Date Analyzed: 04/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3-----	CHLOROMETHANE	6	U
74-83-9-----	BROMOMETHANE	6	U
75-01-4-----	VINYL CHLORIDE	6	U
75-00-3-----	CHLOROETHANE	6	U
75-09-2-----	METHYLENE CHLORIDE	6	U
67-64-1-----	ACETONE	6	U
75-35-4-----	1 1-DICHLOROETHENE	6	U
75-34-3-----	1 1-DICHLOROETHANE	6	U
67-66-3-----	CHLOROFORM	6	U
107-06-2-----	1 2-DICHLOROETHANE	6	U
78-93-3-----	2-BUTANONE	6	U
71-55-6-----	1 1 1-TRICHLOROETHANE	6	U
56-23-5-----	CARBON TETRACHLORIDE	6	U
75-27-4-----	BROMODICHLOROMETHANE	6	U
78-87-5-----	1 2-DICHLOROPROPANE	6	U
79-01-6-----	TRICHLOROETHENE	6	U
124-48-1-----	DIBROMOCHLOROMETHANE	6	U
79-00-5-----	1 1 2-TRICHLOROETHANE	6	U
71-43-2-----	BENZENE	6	U
75-25-2-----	BROMOFORM	6	U
108-10-1-----	4-METHYL-2-PENTANONE	6	U
591-78-6-----	2-HEXANONE	6	U
127-18-4-----	TETRACHLOROETHENE	6	U
108-88-3-----	TOLUENE	6	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7-----	CHLOROBENZENE	6	U
100-41-4-----	ETHYL BENZENE	6	U
100-42-5-----	STYRENE	6	U
156-59-2-----	cis-1 2-DICHLOROETHENE	6	U
156-60-5-----	trans-1 2-DICHLOROETHENE	6	U
13-302-07-----	m,p-XYLENES	6	U
95-47-6-----	o-XYLENE	6	U
106-93-4-----	1 2-DIBROMOETHANE	6	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB116

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.06

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C26086.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 10

Date Analyzed: 04/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB117

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C26087.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 18

Date Analyzed: 04/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	34	
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB117

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.07

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C26087.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 18

Date Analyzed: 04/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB116

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.06

Sample wt/vol: 30.8 (g/mL) G

Lab File ID: P15905.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 10 dec.

Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2-----	Phenol	360	U
111-44-4-----	bis(2-Chloroethyl) ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
100-51-6-----	Benzyl alcohol	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	bis(2-Chloroisopropyl) ether	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethylphenol	360	U
65-85-0-----	Benzoic Acid	270	JB
111-91-1-----	bis(2-Chloroethoxy) methane	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	360	U
106-47-8-----	4-Chloroaniline	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	360	U
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	360	U
606-20-2-----	2,6-Dinitrotoluene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB116

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.06

Sample wt/vol: 30.8 (g/mL) G Lab File ID: P15905.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 10 dec. Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenylphenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	710	U
56-55-3-----	Benzo(a)anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	360	U
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	360	U
207-08-9-----	Benzo(k)fluoranthene	360	U
50-32-8-----	Benzo(a)pyrene	360	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	360	U
53-70-3-----	Dibenz(a,h)anthracene	360	U
191-24-2-----	Benzo(g,h,i)perylene	360	U
110-86-1-----	Pyridine	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB116

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.06

Sample wt/vol: 30.8 (g/mL) G

Lab File ID: P15905.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 10 dec.

Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
95-94-3-----	1,2,4,5-Tetrachlorobenzene	360	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB117

Lab Name: SWL-TULSA Contract: FORT HOOD

Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 33569

Matrix: (soil/water) SOIL Lab Sample ID: 33569.07

Sample wt/vol: 30.2 (g/mL) G Lab File ID: P15906.D

Level: (low/med) LOW Date Received: 04/11/98

% Moisture: not dec. 18 dec. Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
100-51-6-----	Benzyl alcohol	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	bis(2-Chloroisopropyl)ether	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
65-85-0-----	Benzoic Acid	280	JB
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	1900	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB117

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.07

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P15906.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 18 dec.

Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.7

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenylphenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	400	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U
110-86-1-----	Pyridine	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB117

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33569

Matrix: (soil/water) SOIL

Lab Sample ID: 33569.07

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P15906.D

Level: (low/med) LOW

Date Received: 04/11/98

% Moisture: not dec. 18 dec.

Date Extracted: 04/13/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 04/21/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 8.7

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-94-3-----1,2,4,5-Tetrachlorobenzene__	400	U
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09SB116

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____

Lab Code: SWOK_____ Case No.: 33569 SAS No.: _____ SDG No.: 33569A

Matrix (soil/water): SOIL_____ Lab Sample ID: 33569.06

Level (low/med): LOW_____ Date Received: 04/11/98

% Solids: 89.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Color Before: BROWN
Color After: YELLOW

Clarity Before: _____
Clarity After: CLEAR

Texture: MEDIUM
Artifacts:

Comments :

09SB117

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts: _____

Comments :

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHSB231

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23777.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	6	U
74-83-9	BROMOMETHANE	6	U
75-01-4	VINYL CHLORIDE	6	U
75-00-3	CHLOROETHANE	6	U
75-09-2	METHYLENE CHLORIDE	6	U
67-64-1	ACETONE	5	J
75-35-4	1 1-DICHLOROETHENE	6	U
75-34-3	1 1-DICHLOROETHANE	6	U
67-66-3	CHLOROFORM	6	U
107-06-2	1 2-DICHLOROETHANE	6	U
78-93-3	2-BUTANONE	6	U
71-55-6	1 1 1-TRICHLOROETHANE	6	U
56-23-5	CARBON TETRACHLORIDE	6	U
75-27-4	BROMODICHLOROMETHANE	6	U
78-87-5	1 2-DICHLOROPROPANE	6	U
79-01-6	TRICHLOROETHENE	6	U
124-48-1	DIBROMOCHLOROMETHANE	6	U
79-00-5	1 1 2-TRICHLOROETHANE	6	U
71-43-2	BENZENE	6	U
75-25-2	BROMOFORM	6	U
108-10-1	4-METHYL-2-PENTANONE	6	U
591-78-6	2-HEXANONE	6	U
127-18-4	TETRACHLOROETHENE	6	U
108-88-3	TOLUENE	6	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	6	U
108-90-7	CHLOROBENZENE	6	U
100-41-4	ETHYL BENZENE	6	U
100-42-5	STYRENE	6	U
156-59-2	cis-1 2-DICHLOROETHENE	6	U
156-60-5	trans-1 2-DICHLOROETHENE	6	U
13-302-07	m,p-XYLENES	6	U
95-47-6	o-XYLENE	6	U
106-93-4	1 2-DIBROMOETHANE	6	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHSB231

Lab Name: SWL-TULSA

Contract: FT. HOOD PH

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: C23777.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18

Date Analyzed: 03/14/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE	6	U
75-71-8-----DICHLORODIFLUOROMETHANE	6	U
75-69-4-----TRICHLOROFLUOROMETHANE	6	U
74-95-3-----DIBROMOMETHANE	6	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	6	U
108-86-1-----BROMOBENZENE	6	U
104-51-8-----n-BUTYLBENZENE	6	U
98-06-6-----tert-BUTYLBENZENE	6	U
135-98-8-----sec-BUTYLBENZENE	6	U
95-49-8-----2-CHLOROTOLUENE	6	U
106-43-4-----4-CHLOROTOLUENE	6	U
95-50-1-----1 2-DICHLOROBENZENE	6	U
541-73-1-----1 3-DICHLOROBENZENE	6	U
106-46-7-----1 4-DICHLOROBENZENE	6	U
142-28-9-----1 3-DICHLOROPROPANE	6	U
594-20-7-----2 2-DICHLOROPROPANE	6	U
563-58-6-----1 1-DICHLOROPROPENE	6	U
87-68-3-----HEXACHLOROBUTADIENE	6	U
98-82-8-----ISOPROPYLBENZENE	6	U
99-87-6-----p-ISOPROPYLTOLUENE	6	U
91-20-3-----NAPHTHALENE	6	U
103-65-1-----n-PROPYLBENZENE	6	U
87-61-6-----1 2 3-TRICHLOROBENZENE	6	U
120-82-1-----1 2 4-TRICHLOROBENZENE	6	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	6	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	6	U
74-97-5-----BROMOCHLOROMETHANE	6	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHSB231

Lab Name: SWL-TULSA

Contract: FT.HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: M5122.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18 dec.

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl)ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
100-51-6-----	Benzyl alcohol	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	bis(2-Chloroisopropyl)ether	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-di-n-propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
65-85-0-----	Benzoic Acid	2000	U
111-91-1-----	bis(2-Chloroethoxy)methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	400	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	2000	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethylphthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHSB231

Lab Name: SWL-TULSA

Contract: FT.HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: M5122.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18 dec.

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenylphenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
84-74-2-----	Di-n-butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	800	U
56-55-3-----	Benzo(a)anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	400	U
117-84-0-----	Di-n-octylphthalate	400	U
205-99-2-----	Benzo(b)fluoranthene	400	U
207-08-9-----	Benzo(k)fluoranthene	400	U
50-32-8-----	Benzo(a)pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	400	U
53-70-3-----	Dibenz(a,h)anthracene	400	U
191-24-2-----	Benzo(g,h,i)perylene	400	U
110-86-1-----	Pyridine	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHSB231

Lab Name: SWL-TULSA

Contract: FT.HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28743

Matrix: (soil/water) SOIL

Lab Sample ID: 28743.22

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: M5122.D

Level: (low/med) LOW

Date Received: 03/07/97

% Moisture: not dec. 18 dec.

Date Extracted: 03/07/97

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 03/12/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-9403-----	1,2,4,5-Tetrachlorobenzene__	400	U
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1

INORGANIC ANALYSES DATA SHEET

74322

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

CLIENT ID = FHSB231

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHGW103

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28160

Matrix: (soil/water) WATER

Lab Sample ID: 28160.03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K17488.D

Level: (low/med) LOW

Date Received: 01/15/97

% Moisture: not dec. _____

Date Analyzed: 01/20/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

74-87-3-----	CHLOROMETHANE	5	U
74-83-9-----	BROMOMETHANE	5	U
75-01-4-----	VINYL CHLORIDE	5	U
75-00-3-----	CHLOROETHANE	5	U
75-09-2-----	METHYLENE CHLORIDE	24	
67-64-1-----	ACETONE	5	U
75-35-4-----	1 1-DICHLOROETHENE	5	U
75-34-3-----	1 1-DICHLOROETHANE	5	U
67-66-3-----	CHLOROFORM	5	U
107-06-2-----	1 2-DICHLOROETHANE	5	U
78-93-3-----	2-BUTANONE	5	U
71-55-6-----	1 1 1-TRICHLOROETHANE	5	U
56-23-5-----	CARBON TETRACHLORIDE	5	U
75-27-4-----	BROMODICHLOROMETHANE	5	U
78-87-5-----	1 2-DICHLOROPROPANE	5	U
79-01-6-----	TRICHLOROETHENE	5	U
124-48-1-----	DIBROMOCHLOROMETHANE	5	U
79-00-5-----	1 1 2-TRICHLOROETHANE	5	U
71-43-2-----	BENZENE	5	U
75-25-2-----	BROMOFORM	5	U
108-10-1-----	4-METHYL-2-PENTANONE	5	U
591-78-6-----	2-HEXANONE	5	U
127-18-4-----	TETRACHLOROETHENE	5	U
108-88-3-----	TOLUENE	5	U
79-34-5-----	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7-----	CHLOROBENZENE	5	U
100-41-4-----	ETHYL BENZENE	5	U
100-42-5-----	STYRENE	5	U
156-59-2-----	cis-1 2-DICHLOROETHENE	5	U
156-60-5-----	trans-1 2-DICHLOROETHENE	5	U
13-302-07-----	m,p-XYLENES	4	J
95-47-6-----	o-XYLENE	5	U
106-93-4-----	1 2-DIBROMOETHANE	5	U
630-20-6-----	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHGW103

Lab Name: SWL-TULSA

Contract: FT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28160

Matrix: (soil/water) WATER

Lab Sample ID: 28160.03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: K17488.D

Level: (low/med) LOW

Date Received: 01/15/97

% Moisture: not dec. _____

Date Analyzed: 01/20/97

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

CAS NO.

COMPOUND

96-18-4-----1 2 3-TRICHLOROPROPANE	5	U
75-71-8-----DICHLORODIFLUOROMETHANE	5	U
75-69-4-----TRICHLOROFLUOROMETHANE	5	U
74-95-3-----DIBROMOMETHANE	5	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----BROMOBENZENE	5	U
104-51-8-----n-BUTYLBENZENE	5	U
98-06-6-----tert-BUTYLBENZENE	5	U
135-98-8-----sec-BUTYLBENZENE	5	U
95-49-8-----2-CHLOROTOLUENE	5	U
106-43-4-----4-CHLOROTOLUENE	5	U
95-50-1-----1 2-DICHLOROBENZENE	5	U
541-73-1-----1 3-DICHLOROBENZENE	5	U
106-46-7-----1 4-DICHLOROBENZENE	5	U
142-28-9-----1 3-DICHLOROPROPANE	5	U
594-20-7-----2 2-DICHLOROPROPANE	5	U
563-58-6-----1 1-DICHLOROPROPENE	5	U
87-68-3-----HEXACHLOROBUTADIENE	5	U
98-82-8-----ISOPROPYLBENZENE	5	U
99-87-6-----p-ISOPROPYLTOLUENE	5	U
91-20-3-----NAPHTHALENE	5	U
103-65-1-----n-PROPYLBENZENE	5	U
87-61-6-----1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHGW103

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28160

Matrix: (soil/water) WATER

Lab Sample ID: 28160.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: T20192.D

Level: (low/med) LOW

Date Received: 01/15/97

% Moisture: not dec. 0 dec.

Date Extracted: 01/15/97

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/21/97

Concentrated Extract Volume: 1000(uL)

GFC Cleanup: (Y/N) N

pH: 6.7

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	Q
108-95-2-----	Phenol	10 U
111-44-4-----	bis(2-Chloroethyl)ether	10 U
95-57-8-----	2-Chlorophenol	10 U
541-73-1-----	1,3-Dichlorobenzene	10 U
106-46-7-----	1,4-Dichlorobenzene	10 U
100-51-6-----	Benzyl alcohol	10 U
95-50-1-----	1,2-Dichlorobenzene	10 U
95-48-7-----	2-Methylphenol	10 U
108-60-1-----	bis(2-Chloroisopropyl)ether	10 U
106-44-5-----	4-Methylphenol	10 U
621-64-7-----	N-Nitroso-di-n-propylamine	10 U
67-72-1-----	Hexachloroethane	10 U
98-95-3-----	Nitrobenzene	10 U
78-59-1-----	Isophorone	10 U
88-75-5-----	2-Nitrophenol	10 U
105-67-9-----	2,4-Dimethylphenol	10 U
65-85-0-----	Benzoic Acid	50 U
111-91-1-----	bis(2-Chloroethoxy)methane	10 U
120-83-2-----	2,4-Dichlorophenol	10 U
120-82-1-----	1,2,4-Trichlorobenzene	10 U
91-20-3-----	Naphthalene	10 U
106-47-8-----	4-Chloroaniline	10 U
87-68-3-----	Hexachlorobutadiene	10 U
59-50-7-----	4-Chloro-3-methylphenol	10 U
91-57-6-----	2-Methylnaphthalene	10 U
77-47-4-----	Hexachlorocyclopentadiene	10 U
88-06-2-----	2,4,6-Trichlorophenol	10 U
95-95-4-----	2,4,5-Trichlorophenol	50 U
91-58-7-----	2-Chloronaphthalene	10 U
88-74-4-----	2-Nitroaniline	50 U
131-11-3-----	Dimethylphthalate	10 U
208-96-8-----	Acenaphthylene	10 U
606-20-2-----	2,6-Dinitrotoluene	10 U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHGW103

Lab Name: SWL-TULSA Contract: FT. HOOD
Lab Code: SWOK Case No.: SAIC SAS No.: SDG No.: 28160
Matrix: (soil/water) WATER Lab Sample ID: 28160.03
Sample wt/vol: 1000 (g/mL) ML Lab File ID: T20192.D
Level: (low/med) LOW Date Received: 01/15/97
% Moisture: not dec. 0 dec. Date Extracted: 01/15/97
Extraction: (SepF/Cont/Sonc) CONT Date Analyzed: 01/21/97
Concentrated Extract Volume: 1000(uL)
GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

99-09-2-----3-Nitroaniline	50	U
83-32-9-----Acenaphthene	10	U
121-14-2-----2,4-Dinitrotoluene	10	U
51-28-5-----2,4-Dinitrophenol	50	U
100-02-7-----4-Nitrophenol	50	U
132-64-9-----Dibenzofuran	10	U
84-66-2-----Diethylphthalate	10	U
7005-72-3-----4-Chlorophenyl-phenylether	10	U
86-73-7-----Fluorene	10	U
100-01-6-----4-Nitroaniline	50	U
534-52-1-----4,6-Dinitro-2-methylphenol	50	U
86-30-6-----N-Nitrosodiphenylamine (1)	10	U
101-55-3-----4-Bromophenylphenylether	10	U
118-74-1-----Hexachlorobenzene	10	U
87-86-5-----Pentachlorophenol	50	U
85-01-8-----Phenanthrene	10	U
120-12-7-----Anthracene	10	U
84-74-2-----Di-n-butylphthalate	10	U
206-44-0-----Fluoranthene	10	U
129-00-0-----Pyrene	10	U
85-68-7-----Butylbenzylphthalate	10	U
91-94-1-----3,3'-Dichlorobenzidine	20	U
56-55-3-----Benzo(a)anthracene	10	U
218-01-9-----Chrysene	10	U
117-81-7-----bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----Di-n-octylphthalate	10	U
205-99-2-----Benzo(b)fluoranthene	10	U
207-08-9-----Benzo(k)fluoranthene	10	U
50-32-8-----Benzo(a)pyrene	10	U
193-39-5-----Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----Dibenz(a,h)anthracene	10	U
191-24-2-----Benzo(g,h,i)perylene	10	U
110-86-1-----Pyridine	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FHGW103

Lab Name: SWL-TULSA

Contract: FT. HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 28160

Matrix: (soil/water) WATER

Lab Sample ID: 28160.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: T20192.D

Level: (low/med) LOW

Date Received: 01/15/97

% Moisture: not dec. 0 dec.

Date Extracted: 01/15/97

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 01/21/97

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 6.7

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

95-94-3-----1,2,4,5-Tetrachlorobenzene	10	U
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1

INORGANIC ANALYSES DATA SHEET

16003

Concentration Units (ug/L or mg/kg dry weight): UG/L

[illegible]

Texture: _____
Artifacts: _____

CLIENT ID: _____
FHGW103

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA

Contract: FT HOOT

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.01

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R29702.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 9

Date Analyzed: 05/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA

Contract: FT HOOT

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.01

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R29702.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 9

Date Analyzed: 05/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
96-18-4-----1 2 3-	TRICHLOROPROPANE	5	U
75-71-8-----	DICHLORODIFLUOROMETHANE	5	U
75-69-4-----	TRICHLOROFLUOROMETHANE	5	U
74-95-3-----	DIBROMOMETHANE	5	U
96-12-8-----1 2-	DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----	BROMOBENZENE	5	U
104-51-8-----	n-BUTYLBENZENE	5	U
98-06-6-----	tert-BUTYLBENZENE	5	U
135-98-8-----	sec-BUTYLBENZENE	5	U
95-49-8-----2-	CHLOROTOLUENE	5	U
106-43-4-----4-	CHLOROTOLUENE	5	U
95-50-1-----1 2-	DICHLOROBENZENE	5	U
541-73-1-----1 3-	DICHLOROBENZENE	5	U
106-46-7-----1 4-	DICHLOROBENZENE	5	U
142-28-9-----1 3-	DICHLOROPROPANE	5	U
594-20-7-----2 2-	DICHLOROPROPANE	5	U
563-58-6-----1 1-	DICHLOROPROPENE	5	U
87-68-3-----	HEXACHLOROBUTADIENE	5	U
98-82-8-----	ISOPROPYLBENZENE	5	U
99-87-6-----p-	ISOPROPYLTOLUENE	5	U
91-20-3-----	NAPHTHALENE	5	U
103-65-1-----n-	PROPYLBENZENE	5	U
87-61-6-----1 2 3-	TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-	TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-	TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-	TRIMETHYLBENZENE	5	U
74-97-5-----	BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.01

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P16196.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 9 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 9.1

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2-----	Phenol	360	U
111-44-4-----	bis(2-Chloroethyl) ether	360	U
95-57-8-----	2-Chlorophenol	360	U
541-73-1-----	1,3-Dichlorobenzene	360	U
106-46-7-----	1,4-Dichlorobenzene	360	U
100-51-6-----	Benzyl alcohol	360	U
95-50-1-----	1,2-Dichlorobenzene	360	U
95-48-7-----	2-Methylphenol	360	U
108-60-1-----	bis(2-Chloroisopropyl) ether	360	U
106-44-5-----	4-Methylphenol	360	U
621-64-7-----	N-Nitroso-di-n-propylamine	360	U
67-72-1-----	Hexachloroethane	360	U
98-95-3-----	Nitrobenzene	360	U
78-59-1-----	Isophorone	360	U
88-75-5-----	2-Nitrophenol	360	U
105-67-9-----	2,4-Dimethylphenol	360	U
65-85-0-----	Benzoic Acid	170	JB
111-91-1-----	bis(2-Chloroethoxy) methane	360	U
120-83-2-----	2,4-Dichlorophenol	360	U
120-82-1-----	1,2,4-Trichlorobenzene	360	U
91-20-3-----	Naphthalene	360	U
106-47-8-----	4-Chloroaniline	360	U
87-68-3-----	Hexachlorobutadiene	360	U
59-50-7-----	4-Chloro-3-methylphenol	360	U
91-57-6-----	2-Methylnaphthalene	360	U
77-47-4-----	Hexachlorocyclopentadiene	360	U
88-06-2-----	2,4,6-Trichlorophenol	360	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	360	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	360	U
208-96-8-----	Acenaphthylene	360	U
606-20-2-----	2,6-Dinitrotoluene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.01

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P16196.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 9 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 9.1

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	360	U
101-55-3-----	4-Bromophenylphenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	720	U
56-55-3-----	Benzo(a)anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	360	U
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	360	U
207-08-9-----	Benzo(k)fluoranthene	360	U
50-32-8-----	Benzo(a)pyrene	360	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	360	U
53-70-3-----	Dibenz(a,h)anthracene	360	U
191-24-2-----	Benzo(g,h,i)perylene	360	U
110-86-1-----	Pyridine	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB118

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.01

Sample wt/vol: 30.2 (g/mL) G

Lab File ID: P16196.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 9 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 9.1

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene__

360

U

CLIENT SAMPLE I'

09SB118

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA

Contract: FT HOOT

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R29703.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 7

Date Analyzed: 05/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA

Contract: FT HOOT

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.02

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: R29703.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 7

Date Analyzed: 05/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND		
96-18-4-----1 2 3-	TRICHLOROPROPANE	5	U
75-71-8-----	DICHLORODIFLUOROMETHANE	5	U
75-69-4-----	TRICHLOROFLUOROMETHANE	5	U
74-95-3-----	DIBROMOMETHANE	5	U
96-12-8-----1 2-	DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----	BROMOBENZENE	5	U
104-51-8-----	n-BUTYLBENZENE	5	U
98-06-6-----	tert-BUTYLBENZENE	5	U
135-98-8-----	sec-BUTYLBENZENE	5	U
95-49-8-----	2-CHLOROTOLUENE	5	U
106-43-4-----	4-CHLOROTOLUENE	5	U
95-50-1-----	1 2-DICHLOROBENZENE	5	U
541-73-1-----	1 3-DICHLOROBENZENE	5	U
106-46-7-----	1 4-DICHLOROBENZENE	5	U
142-28-9-----	1 3-DICHLOROPROPANE	5	U
594-20-7-----	2 2-DICHLOROPROPANE	5	U
563-58-6-----	1 1-DICHLOROPROPENE	5	U
87-68-3-----	HEXACHLOROBUTADIENE	5	U
98-82-8-----	ISOPROPYLBENZENE	5	U
99-87-6-----	p-ISOPROPYLTOLUENE	5	U
91-20-3-----	NAPHTHALENE	5	U
103-65-1-----	n-PROPYLBENZENE	5	U
87-61-6-----	1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----	1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----	1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----	1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----	BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P16197.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 7 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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108-95-2-----	Phenol	350	U
111-44-4-----	bis(2-Chloroethyl) ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
100-51-6-----	Benzyl alcohol	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	bis(2-Chloroisopropyl) ether	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
65-85-0-----	Benzoic Acid	160	JB
111-91-1-----	bis(2-Chloroethoxy) methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-8-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	1700	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	1700	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	350	U
606-20-2-----	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P16197.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 7 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

99-09-2-----	3-Nitroaniline	1700	U
83-32-9-----	Acenaphthene	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
51-28-5-----	2,4-Dinitrophenol	1700	U
100-02-7-----	4-Nitrophenol	1700	U
132-64-9-----	Dibenzofuran	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	1700	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	350	U
101-55-3-----	4-Bromophenylphenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	1700	U
85-01-8-----	Phenanthrene	350	U
120-12-7-----	Anthracene	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	350	U
129-00-0-----	Pyrene	350	U
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	710	U
56-55-3-----	Benzo(a)anthracene	350	U
218-01-9-----	Chrysene	350	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	350	U
207-08-9-----	Benzo(k)fluoranthene	350	U
50-32-8-----	Benzo(a)pyrene	350	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	350	U
53-70-3-----	Dibenz(a,h)anthracene	350	U
191-24-2-----	Benzo(g,h,i)perylene	350	U
110-86-1-----	Pyridine	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09SB119

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 33894

Matrix: (soil/water) SOIL

Lab Sample ID: 33894.02

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: P16197.D

Level: (low/med) LOW

Date Received: 05/08/98

% Moisture: not dec. 7 dec.

Date Extracted: 05/08/98

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/12/98

Concentrated Extract Volume: 1000 (uL)

GPC Cleanup: (Y/N) N

pH: 8.8

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

95-94-3-----	1,2,4,5-Tetrachlorobenzene		
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350

U

09SB119

Concentration Units (ug/L or mg/kg dry weight): MG/KG

[illegible]

Texture: MEDIUM
Artifacts:

Comments :

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: UL5219.D

Level: (low/med) LOW

Date Received: 06/03/98

% Moisture: not dec. _____

Date Analyzed: 06/05/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: UL5219.D

Level: (low/med) LOW

Date Received: 06/03/98

% Moisture: not dec. _____

Date Analyzed: 06/05/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

96-18-4-----1 2 3-TRICHLOROPROPANE	5	U
75-71-8-----DICHLORODIFLUOROMETHANE	5	U
75-69-4-----TRICHLOROFLUOROMETHANE	5	U
74-95-3-----DIBROMOMETHANE	5	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----BROMOBENZENE	5	U
104-51-8-----n-BUTYLBENZENE	5	U
98-06-6-----tert-BUTYLBENZENE	5	U
135-98-8-----sec-BUTYLBENZENE	5	U
95-49-8-----2-CHLOROTOLUENE	5	U
106-43-4-----4-CHLOROTOLUENE	5	U
95-50-1-----1 2-DICHLOROBENZENE	5	U
541-73-1-----1 3-DICHLOROBENZENE	5	U
106-46-7-----1 4-DICHLOROBENZENE	5	U
142-28-9-----1 3-DICHLOROPROPANE	5	U
594-20-7-----2 2-DICHLOROPROPANE	5	U
563-58-6-----1 1-DICHLOROPROPENE	5	U
87-68-3-----HEXACHLOROBUTADIENE	5	U
98-82-8-----ISOPROPYLBENZENE	5	U
99-87-6-----p-ISOPROPYLTOLUENE	5	U
91-20-3-----NAPHTHALENE	5	U
103-65-1-----n-PROPYLBENZENE	5	U
87-61-6-----1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: P16421.D

Level: (low/med) LOW

Date Received: 06/03/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/04/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----Phenol	10	U
111-44-4-----bis(2-Chloroethyl)ether	10	U
95-57-8-----2-Chlorophenol	10	U
541-73-1-----1,3-Dichlorobenzene	10	U
106-46-7-----1,4-Dichlorobenzene	10	U
100-51-6-----Benzyl alcohol	10	U
95-50-1-----1,2-Dichlorobenzene	10	U
95-48-7-----2-Methylphenol	10	U
108-60-1-----bis(2-Chloroisopropyl)ether	10	U
106-44-5-----4-Methylphenol	10	U
621-64-7-----N-Nitroso-di-n-propylamine	10	U
67-72-1-----Hexachloroethane	10	U
98-95-3-----Nitrobenzene	10	U
78-59-1-----Isophorone	10	U
88-75-5-----2-Nitrophenol	10	U
105-67-9-----2,4-Dimethylphenol	10	U
65-85-0-----Benzoic Acid	5	J
111-91-1-----bis(2-Chloroethoxy)methane	10	U
120-83-2-----2,4-Dichlorophenol	10	U
120-82-1-----1,2,4-Trichlorobenzene	10	U
91-20-3-----Naphthalene	10	U
106-47-8-----4-Chloroaniline	10	U
87-68-3-----Hexachlorobutadiene	10	U
59-50-7-----4-Chloro-3-methylphenol	10	U
91-57-6-----2-Methylnaphthalene	10	U
77-47-4-----Hexachlorocyclopentadiene	10	U
88-06-2-----2,4,6-Trichlorophenol	10	U
95-95-4-----2,4,5-Trichlorophenol	50	U
91-58-7-----2-Chloronaphthalene	10	U
88-74-4-----2-Nitroaniline	50	U
131-11-3-----Dimethylphthalate	10	U
208-96-8-----Acenaphthylene	10	U
606-20-2-----2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: P16421.D

Level: (low/med) LOW

Date Received: 06/03/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/04/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

99-09-2-----3-Nitroaniline	50	U
83-32-9-----Acenaphthene	10	U
121-14-2-----2,4-Dinitrotoluene	10	U
51-28-5-----2,4-Dinitrophenol	50	U
100-02-7-----4-Nitrophenol	50	U
132-64-9-----Dibenzofuran	10	U
84-66-2-----Diethylphthalate	10	U
7005-72-3-----4-Chlorophenyl-phenylether	10	U
86-73-7-----Fluorene	10	U
100-01-6-----4-Nitroaniline	50	U
534-52-1-----4,6-Dinitro-2-methylphenol	50	U
86-30-6-----N-Nitrosodiphenylamine (1)	10	U
101-55-3-----4-Bromophenylphenylether	10	U
118-74-1-----Hexachlorobenzene	10	U
87-86-5-----Pentachlorophenol	50	U
85-01-8-----Phenanthrene	10	U
120-12-7-----Anthracene	10	U
84-74-2-----Di-n-butylphthalate	10	U
206-44-0-----Fluoranthene	10	U
129-00-0-----Pyrene	10	U
85-68-7-----Butylbenzylphthalate	10	U
91-94-1-----3,3'-Dichlorobenzidine	20	U
56-55-3-----Benzo(a)anthracene	10	U
218-01-9-----Chrysene	10	U
117-81-7-----bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----Di-n-octylphthalate	10	U
205-99-2-----Benzo(b)fluoranthene	10	U
207-08-9-----Benzo(k)fluoranthene	10	U
50-32-8-----Benzo(a)pyrene	10	U
193-39-5-----Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----Dibenz(a,h)anthracene	10	U
191-24-2-----Benzo(g,h,i)perylene	10	U
110-86-1-----Pyridine	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ101

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34224

Matrix: (soil/water) WATER

Lab Sample ID: 34224.10

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: P16421.D

Level: (low/med) LOW

Date Received: 06/03/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/04/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

95-94-3-----1,2,4,5-Tetrachlorobenzene__	10	U
--	----	---

CLIENT SAMPLE ID

09PZ101

Lab Name: SOUTHWEST LAB OF OK _____ Contract: SAIC _____
Lab Code: SWOK _____ Case No.: 34224 SAS No.: _____ SDG No.: 34224 _____
Matrix (soil/water): WATER Lab Sample ID: 34224.10
Level (low/med): LOW Date Received: 06/03/98
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

[illegible]

```
Color Before:  COLORLESS
Color After:   COLORLESS
```

Clarity Before: CLEAR_
Clarity After: CLEAR_

Texture: _____
Artifacts: _____

Comments:

FORM I - IN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: UL5256.D

Level: (low/med) LOW

Date Received: 06/04/98

% Moisture: not dec. _____

Date Analyzed: 06/11/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	5	U
74-83-9	BROMOMETHANE	5	U
75-01-4	VINYL CHLORIDE	5	U
75-00-3	CHLOROETHANE	5	U
75-09-2	METHYLENE CHLORIDE	5	U
67-64-1	ACETONE	5	U
75-35-4	1 1-DICHLOROETHENE	5	U
75-34-3	1 1-DICHLOROETHANE	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1 2-DICHLOROETHANE	5	U
78-93-3	2-BUTANONE	5	U
71-55-6	1 1 1-TRICHLOROETHANE	5	U
56-23-5	CARBON TETRACHLORIDE	5	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87-5	1 2-DICHLOROPROPANE	5	U
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DIBROMOCHLOROMETHANE	5	U
79-00-5	1 1 2-TRICHLOROETHANE	5	U
71-43-2	BENZENE	5	U
75-25-2	BROMOFORM	5	U
108-10-1	4-METHYL-2-PENTANONE	5	U
591-78-6	2-HEXANONE	5	U
127-18-4	TETRACHLOROETHENE	5	U
108-88-3	TOLUENE	5	U
79-34-5	1 1 2 2-TETRACHLOROETHANE	5	U
108-90-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BENZENE	5	U
100-42-5	STYRENE	5	U
156-59-2	cis-1 2-DICHLOROETHENE	5	U
156-60-5	trans-1 2-DICHLOROETHENE	5	U
13-302-07	m,p-XYLENES	5	U
95-47-6	o-XYLENE	5	U
106-93-4	1 2-DIBROMOETHANE	5	U
630-20-6	1 1 1 2-TETRACHLOROETHANE	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: UL5256.D

Level: (low/med) LOW

Date Received: 06/04/98

% Moisture: not dec. _____

Date Analyzed: 06/11/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

96-18-4-----1 2 3-TRICHLOROPROPANE	5	U
75-71-8-----DICHLORODIFLUOROMETHANE	5	U
75-69-4-----TRICHLOROFLUOROMETHANE	5	U
74-95-3-----DIBROMOMETHANE	5	U
96-12-8-----1 2-DIBROMO-3-CHLOROPROPANE	5	U
108-86-1-----BROMOBENZENE	5	U
104-51-8-----n-BUTYLBENZENE	5	U
98-06-6-----tert-BUTYLBENZENE	5	U
135-98-8-----sec-BUTYLBENZENE	5	U
95-49-8-----2-CHLOROTOLUENE	5	U
106-43-4-----4-CHLOROTOLUENE	5	U
95-50-1-----1 2-DICHLOROBENZENE	5	U
541-73-1-----1 3-DICHLOROBENZENE	5	U
106-46-7-----1 4-DICHLOROBENZENE	5	U
142-28-9-----1 3-DICHLOROPROPANE	5	U
594-20-7-----2 2-DICHLOROPROPANE	5	U
563-58-6-----1 1-DICHLOROPROPENE	5	U
87-68-3-----HEXACHLOROBUTADIENE	5	U
98-82-8-----ISOPROPYLBENZENE	5	U
99-87-6-----p-ISOPROPYLTOLUENE	5	U
91-20-3-----NAPHTHALENE	5	U
103-65-1-----n-PROPYLBENZENE	5	U
87-61-6-----1 2 3-TRICHLOROBENZENE	5	U
120-82-1-----1 2 4-TRICHLOROBENZENE	5	U
95-63-6-----1 2 4-TRIMETHYLBENZENE	5	U
108-67-8-----1 3 5-TRIMETHYLBENZENE	5	U
74-97-5-----BROMOCHLOROMETHANE	5	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J1515.D

Level: (low/med) LOW

Date Received: 06/04/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/05/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.2

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

108-95-2-----	Phenol	10	U
111-44-4-----	bis(2-Chloroethyl)ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
100-51-6-----	Benzyl alcohol	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	bis(2-Chloroisopropyl)ether	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
65-85-0-----	Benzoic Acid	50	U
111-91-1-----	bis(2-Chloroethoxy)methane	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
59-50-7-----	4-Chloro-3-methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	50	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	50	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J1515.D

Level: (low/med) LOW

Date Received: 06/04/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/05/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.2

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

99-09-2-----	3-Nitroaniline	50	U
83-32-9-----	Acenaphthene	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
51-28-5-----	2,4-Dinitrophenol	50	U
100-02-7-----	4-Nitrophenol	50	U
132-64-9-----	Dibenzofuran	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	50	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50	U
86-30-6-----	N-Nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenylphenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	50	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	20	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U
110-86-1-----	Pyridine	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

09PZ102

Lab Name: SWL-TULSA

Contract: FORT HOOD O

Lab Code: SWOK

Case No.: SAIC

SAS No.:

SDG No.: 34250

Matrix: (soil/water) WATER

Lab Sample ID: 34250.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: J1515.D

Level: (low/med) LOW

Date Received: 06/04/98

% Moisture: not dec. 0 dec.

Date Extracted: 06/05/98

Extraction: (SepF/Cont/Sonc) CONT

Date Analyzed: 06/09/98

Concentrated Extract Volume: 1000(uL)

GPC Cleanup: (Y/N) N

pH: 7.2

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

95-94-3-----1,2,4,5-Tetrachlorobenzene__

10

U

09PZ102

Lab Name: SOUTHWEST_LAB_OF_OK_____ Contract: SAIC_____

Lab Code: SWOK_____ Case No.: 34250 SAS No.: _____ SDG No.: 34250B

Matrix (soil/water): WATER Lab Sample ID: 34250.05

Level (low/med): LOW Date Received: 06/04/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

[illegible]

```
Color Before:  COLORLESS
Color After:   COLORLESS
```

Clarity Before: CLEAR_
Clarity After: CLEAR_

Texture: _____
Artifacts: _____

Comments :

APPENDIX C

Fort Hood RFI Background Soils Data

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB101 Background Soil Boring SB101

Sample ID: FH000-SB10112-10-96/2.0-2.5 (BKSB101)

Sample Depth: 2.0-2.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3	0.41	MG/KG		
Barium	21.3	0.10	MG/KG	*	J
Cadmium	0.12	0.05	MG/KG	B	
Chromium	5.1	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB10212-10-96/4.0-4.7 (BKSB102)

Sample Depth: 4.0-4.7 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2	0.39	MG/KG		
Barium	8	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	10.3	0.10	MG/KG	E*	J
Lead	5	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10312-10-96/10.5-11.0 (BKSB103)

Sample Depth: 10.5-11.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	9.1	0.42	MG/KG		
Barium	14.7	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	10.1	0.10	MG/KG	E*	J
Lead	9.5	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB102 Background Soil Boring SB102

Sample ID: FH000-SB12112-12-96/0.0-1.5 (BKSB121)

Sample Depth: 0.0-1.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.1	0.38	MG/KG		
Barium	24	0.09	MG/KG		
Cadmium	0.18	0.05	MG/KG	B	
Chromium	6.3	0.09	MG/KG		
Lead	10.2	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB12212-12-96/14.0-14.5 (BKSB122)

Sample Depth: 14.0-14.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.36	MG/KG		
Barium	6.1	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12312-12-96/19.0-19.5 (BKSB123)

Sample Depth: 19.0-19.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.36	MG/KG		
Barium	5.5	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	4.3	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20212-12-96/0.0-1.5 (BKSB202)

Sample Depth: 0.0-1.5 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.2	0.37	MG/KG		
Barium	18.2	0.09	MG/KG		
Cadmium	0.12	0.04	MG/KG	B	
Chromium	5.9	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB103 Background Soil Boring SB103

Sample ID: FH000-SB10412-10-96/0.0-1.5 (BKSB104)

Matrix: Soil

Sample Depth: 0.0-1.5 FT

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6.2	0.35	MG/KG		
Barium	28.2	0.08	MG/KG	*	J
Cadmium	0.15	0.04	MG/KG	B	
Chromium	3.1	0.08	MG/KG	E*	J
Lead	5.3	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB10512-10-96/4.0-6.0 (BKSB105)

Matrix: Soil

Sample Depth: 4.0-6.0 FT

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.3	0.36	MG/KG		
Barium	23.4	0.09	MG/KG	*	J
Cadmium	0.11	0.04	MG/KG	B	
Chromium	4	0.09	MG/KG	E*	J
Lead	3.9	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10612-10-96/9.0-9.4 (BKSB106)

Matrix: Soil

Sample Depth: 9.0-9.4 FT

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.37	MG/KG		
Barium	43.7	0.09	MG/KG	*	J
Cadmium	0.16	0.04	MG/KG	B	
Chromium	7.6	0.09	MG/KG	E*	J
Lead	5	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB10712-10-96/14.0-15.0 (BKSB107)

Matrix: Soil

Sample Depth: 14.0-15.0 FT

Field Sample Type: Grab

Collected: 12/10/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	53	0.39	MG/KG		
Barium	1350	0.09	MG/KG	*	J
Cadmium	0.35	0.05	MG/KG	B	
Chromium	5.1	0.09	MG/KG	E*	J
Lead	6.1	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB104 Background Soil Boring SB104

Sample ID: FH000-SB10812-11-96/0.0-1.0 (BKSB108)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6	0.40	MG/KG		
Barium	72.4	0.10	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B	
Chromium	12.9	0.10	MG/KG	E*	J
Lead	9.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.37	0.37	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB10912-11-96/4.0-5.0 (BKSB109)

Sample Depth: 4.0-5.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.5	0.38	MG/KG		
Barium	155	0.09	MG/KG	*	J
Cadmium	0.07	0.05	MG/KG	B	
Chromium	6.5	0.09	MG/KG	E*	J
Lead	3.2	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB11012-11-96/11.0-11.5 (BKSB110)

Sample Depth: 11.0-11.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.8	0.40	MG/KG		
Barium	24.1	0.10	MG/KG	*	J
Cadmium	0.06	0.05	MG/KG	B	
Chromium	16.6	0.10	MG/KG	E*	J
Lead	7.8	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB11112-11-96/18.0-18.5 (BKSB111)

Sample Depth: 18.0-18.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.2	0.38	MG/KG		
Barium	7.2	0.09	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	B	
Chromium	6.2	0.09	MG/KG	E*	J
Lead	5.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB105 Background Soil Boring SB105

Sample ID: FH000-SB11212-11-96/1.0-1.5 (BKSB112)

Sample Depth: 1.0-1.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	1.6	0.35	MG/KG		
Barium	6.6	0.09	MG/KG	*	J
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4	0.09	MG/KG	E*	J
Lead	1.5	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB11312-11-96/4.0-5.0 (BKSB113)

Sample Depth: 4.0-5.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.7	0.40	MG/KG		
Barium	20.5	0.10	MG/KG	*	J
Cadmium	0.07	0.05	MG/KG	B	
Chromium	8.9	0.10	MG/KG	E*	J
Lead	6	0.17	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.36	MG/KG	U	U
Silver	0.23	0.23	MG/KG	U	U

Sample ID: FH000-SB11412-11-96/11.0-12.0 (BKSB114)

Sample Depth: 11.0-12.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.2	0.42	MG/KG		
Barium	25.2	0.10	MG/KG	*	J
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	20.3	0.10	MG/KG	E*	J
Lead	7.7	0.18	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.38	0.38	MG/KG	U	U
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB11512-11-96/15.0-15.5 (BKSB115)

Sample Depth: 15.0-15.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.3	0.36	MG/KG		
Barium	10.6	0.09	MG/KG	*	J
Cadmium	0.06	0.04	MG/KG	B	
Chromium	7.3	0.09	MG/KG	E*	J
Lead	5.1	0.15	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB11612-11-96/22.0-22.5 (BKSB116)

Sample Depth: 22.0-22.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/11/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	11.6	0.37	MG/KG		
Barium	4.9	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B	
Chromium	2.7	0.09	MG/KG	E*	J
Lead	5.6	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB106 Background Soil Boring SB106

Sample ID: FH000-SB11712-12-96/0.0-1.0 (BKSB117)

Matrix: Soil

Sample Depth: 0.0-1.0 FT

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.37	MG/KG		
Barium	27.9	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B	
Chromium	5.7	0.09	MG/KG	E*	J
Lead	8.3	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11812-12-96/9.0-9.5 (BKSB118)

Matrix: Soil

Sample Depth: 9.0-9.5 FT

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.6	0.37	MG/KG		
Barium	4.4	0.09	MG/KG	*	J
Cadmium	0.19	0.04	MG/KG	B	
Chromium	2.2	0.09	MG/KG	E*	J
Lead	3.7	0.16	MG/KG	EN*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB11912-12-96/14.0-14.5 (BKSB119)

Matrix: Soil

Sample Depth: 14.0-14.5 FT

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	0.66	0.37	MG/KG	B	
Barium	3	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	2.1	0.09	MG/KG		
Lead	1.3	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12012-12-96/19.0-20.0 (BKSB120)

Matrix: Soil

Sample Depth: 19.0-20.0 FT

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	0.44	0.35	MG/KG	B	
Barium	2	0.08	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	0.93	0.08	MG/KG	B	
Lead	0.72	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20112-12-96/0.0-1.0

(BKSB201)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.4	0.36	MG/KG		
Barium	17.9	0.09	MG/KG		
Cadmium	0.14	0.04	MG/KG	B	
Chromium	2.6	0.09	MG/KG		
Lead	5.9	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB107 Background Soil Boring SB107

Sample ID: FH000-SB12412-12-96/0.0-1.0 (BKSB124)

Matrix: Soil

Sample Depth: 0.0-1.0 FT

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	6	0.37	MG/KG		
Barium	19.3	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	7.2	0.09	MG/KG		
Lead	4.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12512-12-96/4.0-4.5 (BKSB125)

Sample Depth: 4.0-4.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.35	MG/KG		
Barium	18.1	0.09	MG/KG		
Cadmium	0.11	0.04	MG/KG	B	
Chromium	5.1	0.09	MG/KG		
Lead	1.7	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.36	0.32	MG/KG	B	
Silver	0.2	0.20	MG/KG	U	U

Sample ID: FH000-SB12612-12-96/5.5-6.0 (BKSB126)

Sample Depth: 5.5-6.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.5	0.36	MG/KG		
Barium	5.4	0.09	MG/KG		
Cadmium	0.06	0.04	MG/KG	B	
Chromium	5.5	0.09	MG/KG		
Lead	1.5	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.44	0.33	MG/KG	B	
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB20312-12-96/0.0-1.0 (BKSB203)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/12/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.9	0.37	MG/KG		
Barium	39	0.09	MG/KG		
Cadmium	0.17	0.05	MG/KG	B	
Chromium	9.3	0.09	MG/KG		
Lead	6.6	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB108 Background Soil Boring SB108

Sample ID: FH000-SB135/01-14-97/0.0-1.0 (BKSB135)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.7	0.36	MG/KG		
Barium	15.4	0.09	MG/KG	*	J
Cadmium	0.17	0.04	MG/KG	B*	J
Chromium	6.1	0.09	MG/KG		
Lead	2.5	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.5	1.5	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB136/01-14-97/5.0-5.5 (BKSB136)

Sample Depth: 5.0-5.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.3	0.38	MG/KG		
Barium	14.8	0.09	MG/KG	*	J
Cadmium	0.2	0.05	MG/KG	B*	J
Chromium	8.3	0.09	MG/KG		
Lead	3	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB137/01-14-97/9.0-9.5 (BKSB137)

Sample Depth: 9.0-9.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	8.2	0.36	MG/KG		
Barium	7.8	0.09	MG/KG	*	J
Cadmium	0.18	0.04	MG/KG	B*	J
Chromium	8.1	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB138/01-14-97/14.0-14.5 (BKSB138)

Sample Depth: 14.0-14.5 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	9.2	0.38	MG/KG		
Barium	12.2	0.09	MG/KG	*	J
Cadmium	0.21	0.05	MG/KG	B*	J
Chromium	11.1	0.09	MG/KG		
Lead	4.1	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	UWN	R
Silver	0.22	0.22	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB139/01-14-97/16.5-17.0 (BKSB139)

Sample Depth: 16.5-17.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/14/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	7.6	0.37	MG/KG		
Barium	7.3	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	8.4	0.09	MG/KG		
Lead	3.6	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB109 Background Soil Boring SB109

Sample ID: FH000-SB140/01-15-97/0.0-1.0 (BKSB140)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.8	0.41	MG/KG		
Barium	108	0.10	MG/KG	*	J
Cadmium	0.79	0.05	MG/KG	*	J
Chromium	16.1	0.10	MG/KG		
Lead	33.2	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Sample ID: FH000-SB141/01-15-97/4.0-5.0 (BKSB141)

Sample Depth: 4.0-5.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.6	0.43	MG/KG		
Barium	127	0.10	MG/KG	*	J
Cadmium	0.45	0.05	MG/KG	B*	J
Chromium	23.6	0.10	MG/KG		
Lead	12.1	0.18	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.8	1.8	MG/KG	UN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB142/01-15-97/9.0-10.0 (BKSB142)

Sample Depth: 9.0-10.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.44	MG/KG		
Barium	63	0.11	MG/KG	*	J
Cadmium	0.29	0.05	MG/KG	B*	J
Chromium	8.4	0.11	MG/KG		
Lead	5	0.19	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	1.9	1.9	MG/KG	UWN	R
Silver	0.25	0.25	MG/KG	U	U

Sample ID: FH000-SB143/01-15-97/14.5-15.0 (BKSB143)

Sample Depth: 14.5-15.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.8	0.41	MG/KG		
Barium	39.3	0.10	MG/KG	*	J
Cadmium	0.27	0.05	MG/KG	B*	J
Chromium	12.2	0.10	MG/KG		
Lead	6.6	0.17	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	UWN	R
Silver	0.24	0.24	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB144/01-15-97/19.0-19.3 (BKS8144)

Sample Depth: 19.0-19.3 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 01/15/97

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.7	0.37	MG/KG		
Barium	36.1	0.09	MG/KG	*	J
Cadmium	0.2	0.04	MG/KG	B*	J
Chromium	6.5	0.09	MG/KG		
Lead	4	0.16	MG/KG	*	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.31	0.31	MG/KG	UWN	R
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Station: SB110 Background Soil Boring SB110

Sample ID: FH000-SB12712-13-96/0.0-1.0 (BKSB127)

Sample Depth: 0.0-1.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	1.9	0.36	MG/KG		
Barium	18.8	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	3.7	0.09	MG/KG		
Lead	3.8	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB12812-13-96/4.0-6.0 (BKSB128)

Sample Depth: 4.0-6.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.6	0.38	MG/KG		
Barium	36.3	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	8.5	0.09	MG/KG		
Lead	7.5	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG		
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

Sample ID: FH000-SB12912-13-96/10.0-11.0 (BKSB129)

Sample Depth: 10.0-11.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.6	0.36	MG/KG		
Barium	26.3	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	4.6	0.09	MG/KG		
Lead	4.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Sample ID: FH000-SB13012-13-96/15.0-16.0 (BKSB130)

Sample Depth: 15.0-16.0 FT

Matrix: Soil

Field Sample Type: Grab

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	1	0.35	MG/KG	B	
Barium	8.1	0.08	MG/KG		
Cadmium	0.07	0.04	MG/KG	B	
Chromium	1.8	0.08	MG/KG		
Lead	3.1	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.32	0.32	MG/KG	U	U
Silver	0.2	0.20	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB13112-13-96/20.0-21.0 (BKSB131)		Sample Depth: 20.0-21.0 FT		Collected: 12/13/96	
Matrix: Soil		Field Sample Type: Grab			
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	5.3	0.38	MG/KG		
Barium	65.9	0.09	MG/KG		
Cadmium	0.15	0.05	MG/KG	B	
Chromium	7.7	0.09	MG/KG		
Lead	10.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB13212-13-96/25.0-26.0 (BKSB132)		Sample Depth: 25.0-26.0 FT		Collected: 12/13/96	
Matrix: Soil		Field Sample Type: Grab			
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	4.2	0.37	MG/KG		
Barium	41.7	0.09	MG/KG		
Cadmium	0.04	0.04	MG/KG	U	U
Chromium	5.9	0.09	MG/KG		
Lead	7.8	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.34	0.34	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U
Sample ID: FH000-SB13312-13-96/30.0-31.0 (BKSB133)		Sample Depth: 30.0-31.0 FT		Collected: 12/13/96	
Matrix: Soil		Field Sample Type: Grab			
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.39	MG/KG		
Barium	68.6	0.09	MG/KG		
Cadmium	0.11	0.05	MG/KG	B	
Chromium	4.9	0.09	MG/KG		
Lead	6.3	0.17	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U
Sample ID: FH000-SB13412-13-96/34.0-34.5 (BKSB134)		Sample Depth: 34.0-34.5 FT		Collected: 12/13/96	
Matrix: Soil		Field Sample Type: Grab			
Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	2.9	0.36	MG/KG		
Barium	20.1	0.09	MG/KG		
Cadmium	0.08	0.04	MG/KG	B	
Chromium	1.2	0.09	MG/KG		
Lead	2.3	0.15	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.33	0.33	MG/KG	U	U
Silver	0.21	0.21	MG/KG	U	U

Ft. Hood RCRA Facility Investigation

FH-BKG Fort Hood Background

Analytical Results

Sample ID: FH000-SB20412-13-96/4.0-6.0

(BKSB204)

Sample Depth: 4.0-6.0 FT

Matrix: Soil

Field Sample Type: Field Duplicate

Collected: 12/13/96

Metals	Result	Detection Limit	Units	Qualifiers	
				Lab	Data
Arsenic	3.2	0.38	MG/KG		
Barium	31.9	0.09	MG/KG		
Cadmium	0.05	0.05	MG/KG	U	U
Chromium	6.5	0.09	MG/KG		
Lead	7.1	0.16	MG/KG	EN	J
Mercury	0.04	0.04	MG/KG	U	U
Selenium	0.35	0.35	MG/KG	U	U
Silver	0.22	0.22	MG/KG	U	U

APPENDIX D

Fort Hood RFI Background Soil Boring Logs



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Fort Worth, Texas

Boring FHBKG-SB101

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FHBKG : Background
Start Date : 12/10/96
End Date : 12/10/96
Northing Coord. : 3446458.08 m
Easting Coord. : 61375.50 m UTM 14 North
Total Depth of Boring : 18.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 3.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 887.80ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Topsoil. 0.0-0.5' bgs.; weathered tan limestone.	No sample recovery.
1	887	CL			CLAY; weathered limestone fragments; damp; soft; moderately plastic; 10YR5/4 yellowish brown.	
2	886				Same as above; dry.	Sample BKSB101 collected 2.0-2.5' bgs.
3	885				Same as above; dry; more weathered limestone.	Description from soil cuttings.
4	884					
5	883	CH			CLAY, fat; fewer fragments; damp; firm; highly plastic; mottled 10YR6/6 brownish yellow and 2.5Y7/1 light gray.	Sample BKSB102 collected 4.0-4.7' bgs.
6	882				Same CLAY as above; more silty; interbedded with weathered limestone; dry.	Description from soil cuttings.
7	881					
8	880					
9	879	CL				
10	878				Same as above; dry.	
11	877				Silty CLAY; dry; firm; non-plastic; 10YR6/6 brownish yellow.	Sample BKSB103 collected 10.5-11.0' bgs.
12	876				Same as above; interbedded with tan weathered limestone; dry.	
13	875	LS				
14	874					
15	873				LIMESTONE, weathered; dry; blue-gray.	Description from soil cuttings.
16	872					
17	871					
18	870					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
19	869				Bottom of Boring @ 18.5' bgs.	
20	868					



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Fort Worth, Texas

Boring FHBKG-SB102

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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : 3446503.40 m
Easting Coord. : 613980.64 m UTM 14 North
Total Depth of Boring : 19.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 16.0 feet
Depth Drilled Into Rock: 3.5 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
 : CME Sampler 5' long

Depth in feet	Surf. Elev. 912.28ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	912				Topsoil. 0.0-0.4' bgs.	Sample BKS121, duplicate BKS1202, and split sample BKS1302 collected 0.0-0.5' bgs.
1	911	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 10YR5/3 brown and 10YR8/2 very pale brown.	
2	910				Same as above; dry.	
3	909					Description from soil cuttings.
4	908	CL			LIMESTONE, weathered, tan; and Silty Clay interbeds; dry.	
5	907					
6	906				Zones of limestone and highly indurated silty clay (weathered limestone?); shell fragments; roots; dry; very hard; 2.5Y8/2 pale yellow.	
7	905	CL				
8	904				Same as above; dry.	
9	903				Same as above; dry.	
10	902	CL				
11	901				Same as above; dry.	
12	900					
13	899	LS				Description from soil cuttings.
14	898				Same as above; dry.	
15	897					
16	896	LS			LIMESTONE, weathered; dry; blue-gray.	Sample BKS122 collected 14.0-14.5' bgs.
17	895				Same as above; dry.	
18	894				Same as above; dry.	
19	893				Bottom of Boring @ 19.5' bgs.	Sample BKS123 collected 19.0-19.5' bgs.
20						Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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Boring FHBKG-SB103

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FHBKG : Background
Start Date : 12/10/96
End Date : 12/10/96
Northing Coord. : 3447405.80 m
Easting Coord. : 606690.49 m UTM 14 North
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 2.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 795.26ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	795				Topsoil. 0.0-0.2' bgs.; weathered tan limestone.	Sample BKSB104 collected 0.0-0.5' bgs.
1	794				Interbedded Silty and pebbly CLAY; 40% coarse sand to pebble sized angular to subrounded fragments; dry; moderately plastic; thin layers of 10YR8/4 very pale brown and 10YR3/2 very dark grayish brown.	
2	793	CL			Same as above; no pebbles; dry.	Description from soil cuttings.
3	792					
4	791				Same as above; weathered, tan limestone fragments; dry.	Sample BKSB105 collected 4.0-4.5' bgs.
5	790	CL				
6	789				Same as above; interbeds of limestone; dry.	
7	788				Same as above; dry.	
8	787					
9	786				Same as above; dry.	Sample BKSB106 collected 9.0-9.5' bgs.
10	785	CL				
11	784				Same as above; except more medium to coarse sand; dry; soft; non-plastic.	
12	783					
13	782				Same as above; dry.	Description from soil cuttings.
14	781	CL			Silty CLAY; weathered limestone fragments; damp; firm; moderately plastic; mottled 10YR8/2 very pale brown and 10YR6/4 light yellowish brown.	Sample BKSB107 collected 14.0-15.0' bgs.
15	780				LIMESTONE, weathered; dry; blue-gray.	
16	779	LS				
17	778				Bottom of Boring @ 17.0' bgs.	
18	777					
19	776					
20						Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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Boring FHBKG-SB104

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FHBKG : Background
Start Date : 12/11/96
End Date : 12/11/96
Northing Coord. : 3447780.16 m
Easting Coord. : 613523.75 m UTM 14 North
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 24.0 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 896.29	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	896				Topsoil. 0.0-1.0' bgs.; weathered tan limestone.	Sample BKS108 collected 0.0-1.0' bgs.
1	895				Silty CLAY; trace organics; weathered limestone fragments; damp; soft; low plasticity; 2.5Y7/6 yellow.	
2	894				Same as above.	Description from soil cuttings.
3	893				Same as above; no organics; dry; 10YR7/8 yellow mottle.	Sample BKS109 collected 4.0-5.0' bgs.
4	892				Same as above; slightly more silty; dry; hard; brittle.	Description from soil cuttings.
5	891	CL				Description from soil cuttings. Hard drilling.
6	890					
7	889					
8	888					
9	887				LIMESTONE, weathered; tan.	
10	886	LS			weathered limestone as above.	
11	885				Silty CLAY as above; dry.	Sample BKS110 collected 11.0-11.5' bgs.
12	884	CL			Same as above; dry.	Geotechnical sample collected 12.0-13.0' bgs.
13	883				Silty CLAY and weathered LIMESTONE interbeds.	
14	882					Description from soil cuttings.
15	881	CL				
16	880					
17	879					
18	878	CL			Silty CLAY as above; dry.	Sample BKS111 collected 18.0-18.5' bgs.
19	877				Silty CLAY and weathered LIMESTONE interbeds.	
20	876					Description from soil cuttings.
21	875	CL				
22	874					
23	873				Same as above; dry.	
24	872				Blue-gray weathered limestone fragments; dry.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25		LS			Bottom of Boring at 24.0' bgs.	



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Boring FHBKG-SB105

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FHBKG : Background
Start Date : 12/11/96
End Date : 12/11/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 24.0 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0	GP			GRAVEL (graded area).	
1	-1				Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 2.5Y6/4 light yellowish brown.	Sample BKSB112 collected 1.0-1.5' bgs.
2	-2	CL			Same as above; dry.	Description from soil cuttings.
3	-3					
4	-4	CH			CLAY, fat; dry; firm; highly plastic; mottled 2.5Y6/4 light yellowish brown and 10YR6/6 brownish yellow.	Sample BKSB113 collected 4.0-5.0' bgs.
5	-5				Silty CLAY and LIMESTONE interbeds; dry; firm; 2.5Y6/4 light yellowish brown.	
6	-6					
7	-7					
8	-8					Description from soil cuttings.
9	-9					
10	-10	CL			Same as above; dry.	
11	-11				Same as above; dry; moderately plastic.	Sample BKSB114 collected 11.0-12.0' bgs.
12	-12					
13	-13				Same as above; dry.	Description from soil cuttings.
14	-14					
15	-15	CL			Same as above; more silt; dry; hard; brittle; non-plastic.	Sample BKSB115 collected 15.0-15.5' bgs.
16	-16				Same as above with weathered limestone interbeds.	
17	-17					
18	-18					Description from soil cuttings.
19	-19					
20	-20	CL				
21	-21					
22	-22				Same as above; dry.	Sample BKSB116 collected 22.0-22.5' bgs.
23	-23					
24	-24				Blue-gray weathered limestone; dry; hard drilling to 24.0'.	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
25		LS			Bottom of Boring at 24.0' bgs.	



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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 25.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 25.5 feet
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
 : CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0	CL			Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; mottled 2.5Y7/6 yellow and 10YR6/6 brownish yellow.	Sample BKS117 collected 0.0-1.0' bgs.
1	-1				Same as above; dry.	Geotechnical sample collected 3.0-4.0' bgs.
2	-2				Same as above with weathered limestone interbeds.	
3	-3				Same as above with trace sand; dry.	
4	-4	CL			Same as above with weathered limestone interbeds.	Description from soil cuttings.
5	-5				Same as above with trace sand; dry.	
6	-6				Same as above with trace sand; dry.	
7	-7				Same as above with trace sand; dry.	
8	-8	SM			Silty SAND, fine; dry; non-plastic; carbonate (HCL fizz); 2.5Y8/4 pale yellow.	Sample BKS118 collected 9.0-9.5' bgs.
9	-9				Same as above; dry.	
10	-10				Same as above except color change to 19YR8/2 very pale brown.	
11	-11				Same as above except color change to 19YR8/2 very pale brown.	
12	-12	SP			Same as above SAND, fine; except no silt.	Sample BKS119 collected 14.0-14.5' bgs.
13	-13				Same as above SAND, fine; except no silt.	
14	-14				Same as above SAND, fine; except no silt.	
15	-15				Same as above; dry.	
16	-16	SW			Same as above; dry.	Description from soil cuttings.
17	-17				Same as above; dry.	
18	-18				Same as above; dry.	
19	-19				Same as above; dry.	
20	-20	LS			SAND, fine; dry; soft; non-carbonate; 2.5Y8/4 pale yellow.	Sample BKS120 collected 19.0-20.0' bgs.
21	-21				Same as above; dry.	
22	-22				Same as above; dry.	
23	-23				Same as above; dry.	
24	-24	LS			LIMESTONE, weathered; dry; tan.	Description from soil cuttings.
25	-25				LIMESTONE, weathered; dry; tan.	
26	-26				Blue-gray weathered limestone; dry.	
27	-27				Bottom of Boring at 25.5' bgs.	
28	-28					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
29	-29					
30	-30					



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FHBKG : Background
Start Date : 12/12/96
End Date : 12/12/96
Northing Coord. : 3438421.71 m
Easting Coord. : 612222.83 m UTM 14 North
Total Depth of Boring : 6.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 1.7 feet
Depth Drilled Into Rock: 4.3 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Silty CLAY; weathered limestone fragments; dry; hard; non-plastic; mottled 10YR6/8 brownish yellow and 10YR6/2 light brownish gray.	Sample BKSB124 collected 0.0-1.0' bgs.
1	-1	CL				
2	-2				LIMESTONE, weathered, fossiliferous; Blue-Gray; 2.5Y6/1 gray.	
3	-3					Description from soil cuttings.
4	-4	LS			Same as above	Sample BKSB125 collected 4.0-4.5' bgs.
5	-5					Description from soil cuttings.
6	-6				Same as above	Sample BKSB126 collected 5.5-6.0' bgs.
					Bottom of Boring at 6.0' bgs.	
7	-7					
8	-8					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
9	-9					
10						



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FHBKG : Background
Start Date : 01/14/97
End Date : 01/14/97
Northing Coord. : Not
Easting Coord. : Surveyed
Total Depth of Boring : 17.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : 15.0 feet
Depth Drilled Into Rock: 2.0 feet
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. NS	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	0				Topsoil 0.0-0.4'	Sample BKSB135 collected 0.0-1.0' bgs.
1	-1				Silty CLAY; weathered limestone fragments; dry; firm; non-plastic; 10YR6/8 brownish yellow.	
2	-2					
3	-3				Same as above; dry.	Description from soil cuttings.
4	-4					
5	-5				Same as above; dry; mottled with 2.5Y7/3 pale yellow.	Sample BKSB136 collected 5.0-5.5' bgs.
6	-6					
7	-7				Same as above; dry.	Description from soil cuttings.
8	-8	CL				
9	-9				Same as above; dry.	Sample BKSB137 collected 9.0-9.5' bgs.
10	-10					
11	-11					
12	-12				Same as above; dry.	Description from soil cuttings.
13	-13					
14	-14				Same as above; less silty; dry. Same as above; dry.	Sample BKSB138 collected 14.0-14.5' bgs.
15	-15				LIMESTONE, weathered; blue-gray.	
16	-16	LS			Same as above; dry.	Sample BKSB139 collected 16.5-17.0' bgs.
17	-17				Bottom of Boring at 17.0' bgs.	
18	-18					Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.
19	-19					
20						



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FHBKG : Background
Start Date : 01/15/97
End Date : 01/15/97
Northing Coord. : 3471041.79 m
Easting Coord. : 626015.26 m UTM 14 North
Total Depth of Boring : 24.0 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
: CME Sampler 5' long

Depth in feet	Surf. Elev. 730.62ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0					Silty CLAY; trace roots; trace rock fragments <1cm, angular to subrounded; damp; highly plastic; 5YR2.5/1 black.	Sample BKSB140 collected 0.0-1.0' bgs.
1	730					
2	729				Same as above; damp.	
3	728					
4	727	CL			Same as above; damp.	Description from soil cuttings.
5	726					Sample BKSB141 collected 4.0-5.0' bgs.
6	725					
7	724				Silty CLAY; trace weathered limestone fragments; dry; stiff; non-plastic; 7.5YR6/4 light brown.	
8	723				Some sand, fine, from 8-9' bgs.	Description from soil cuttings.
9	722				Same as above; dry.	Sample BKSB142 collected 9.0-10.0' bgs.
10	721					
11	720				Same as above except rock fragments (mostly weathered limestone) up to 20% of total matrix.	
12	719					
13	718				Same as above; dry.	Description from soil cuttings.
14	717					
15	716	CL			Same as above; with limestone fragments up to 40%; also 10% fine sand; dry.	Sample BKSB143 collected 14.5-15.0' bgs.
16	715					
17	714				Same as above; dry.	Description from soil cuttings.
18	713					
19	712				Same as above; dry.	Sample BKSB144 collected 19.0-19.3' bgs.
20	711					
21	710					Description from soil cuttings.
22	709				Same as above; dry.	
23	708					
24	707	SM			Silty SAND, fine to medium; moist; soft; moderately plastic; 7.5Y6/8 reddish yellow and 7.5 YR7/1 light gray.	Water in hole, attempted sample, no recovery in gravel at 24'
25	706	GP			Bottom of boring at 24.0' bgs. GRAVEL,angular;saturated	Soil colors from Munsell Soil Color Chart, 1992 Revised Edition.



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FHBKG : Background
Start Date : 12/13/96
End Date : 12/13/96
Northing Coord. : 3472081.13 m
Easting Coord. : 626432.83 m UTM 14 North
Total Depth of Boring : 34.5 feet

Drilling Company : Terra-Mar
Driller : Bill Christopher
Designation of Drill : Mobile Drill B-59
Type of Drill Rig : Hollow Stem Auger
Geologist : Jeff DeVaughn
Depth to Bedrock : Not Encountered
Depth Drilled Into Rock: NA
Borehole Diameter : 8 inches
Sampling Equipment : 4.25" Augers
 : CME Sampler 5' long

Depth in feet	Surf. Elev. 729.66ft	USCS	GRAPHIC	Water Levels	DESCRIPTION	REMARKS
0	729	SM			SAND, fine to medium; some silt; damp; soft; non-plastic; 7.5YR5/6 strong brown.	Sample BKS127 collected 0.0-1.0' bgs.
1	728				Same as above; damp to moist.	
2	727					
3	726	SC			Clayey SAND; damp; firm; moderately plastic; 2.5YR4/6 red.	Sample BKS128 collected 4.0-6.0' bgs.
4	725				Same as above; damp.	
5	724					
6	723				Same as above; damp.	
7	722					
8	721				Same as above; damp.	
9	720					
10	719				Same as above; slightly less clay; dry.	
11	718					
12	717				Same as above; dry.	
13	716	CL			Same as above; less clay; dry; color change 5YR5/6 yellowish red.	Sample BKS130 collected 15.0-16.0' bgs.
14	715				Same as above; dry.	
15	714				Same as above; dry;	
16	713				Same as above; more clay; dry.	
17	712					
18	711				Silty CLAY; trace sand; trace tan weathered limestone fragments; dry; hard; 7.5YR6/6 reddish yellow.	Sample BKS131 collected 20.0-21.0' bgs.
19	710				Same as above; dry.	
20	709					
21	708				Same as above; dry.	
22	707					
23	706				Same as above; dry.	
24	705					
25	704				Same as above; dry.	
26	703					
27	702				Same as above; dry.	
28	701	SM			Same as above; with more silt; moist; softer.	Sample BKS132 collected 25.0-26.0' bgs.
29	700					
30	699				Same as above; except very silty; damp; soft.	
31	698					
32	697					
33	696				Silty SAND, fine; trace gravel and coarse sand at bottom; saturated; non-plastic; 7.5Y6/6 reddish yellow.	Sample BKS134 collected 34.0-34.5' bgs.
34	695					
35	694				SAND, coarse, and GRAVEL, poorly sorted, angular to round; saturated; 1.5 water in hole.	
36	693					
37	692				Bottom of boring at 34.5' bgs.	
38	691					
39	690					
40						

APPENDIX E

Statistical Calculations

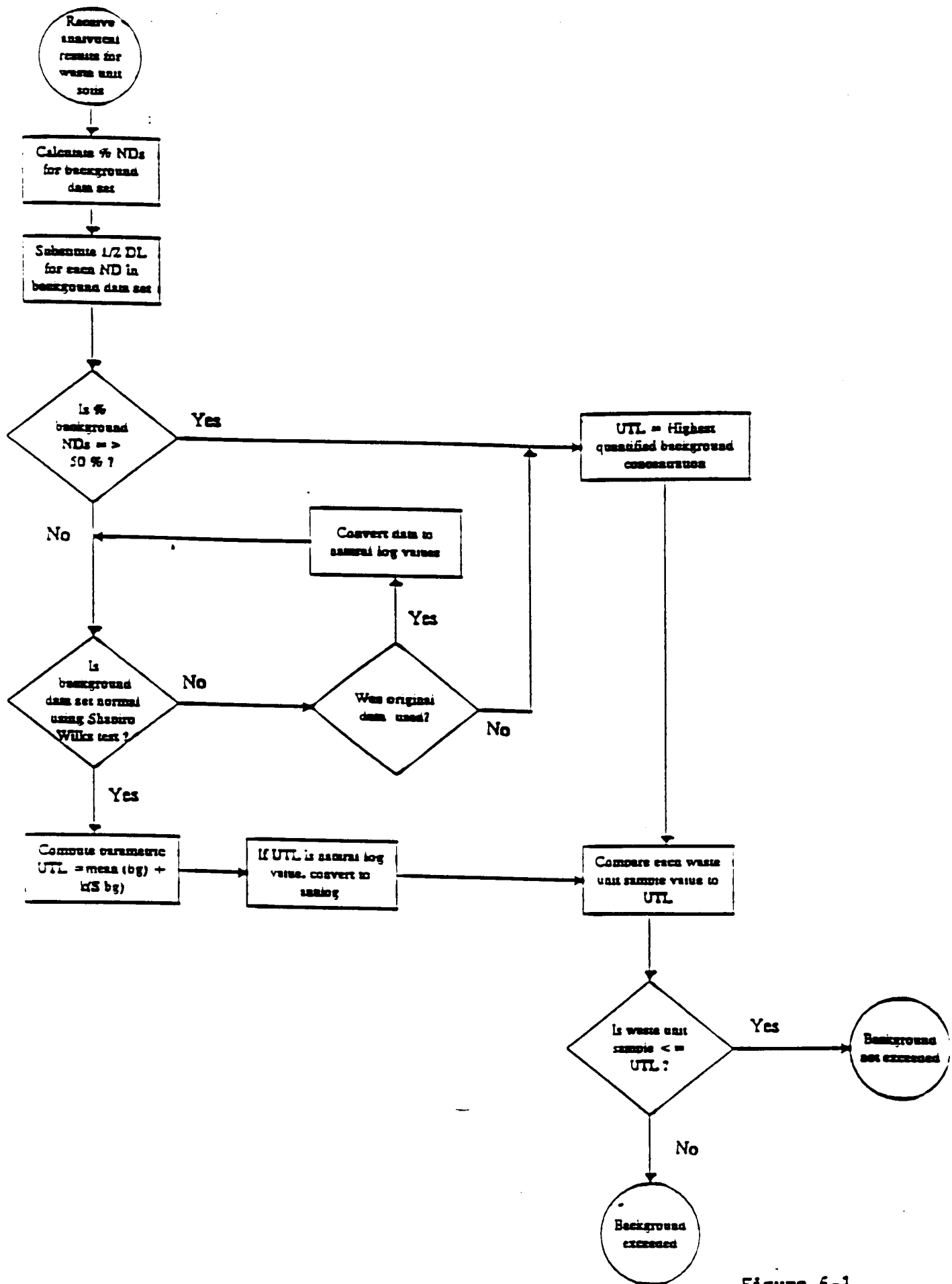
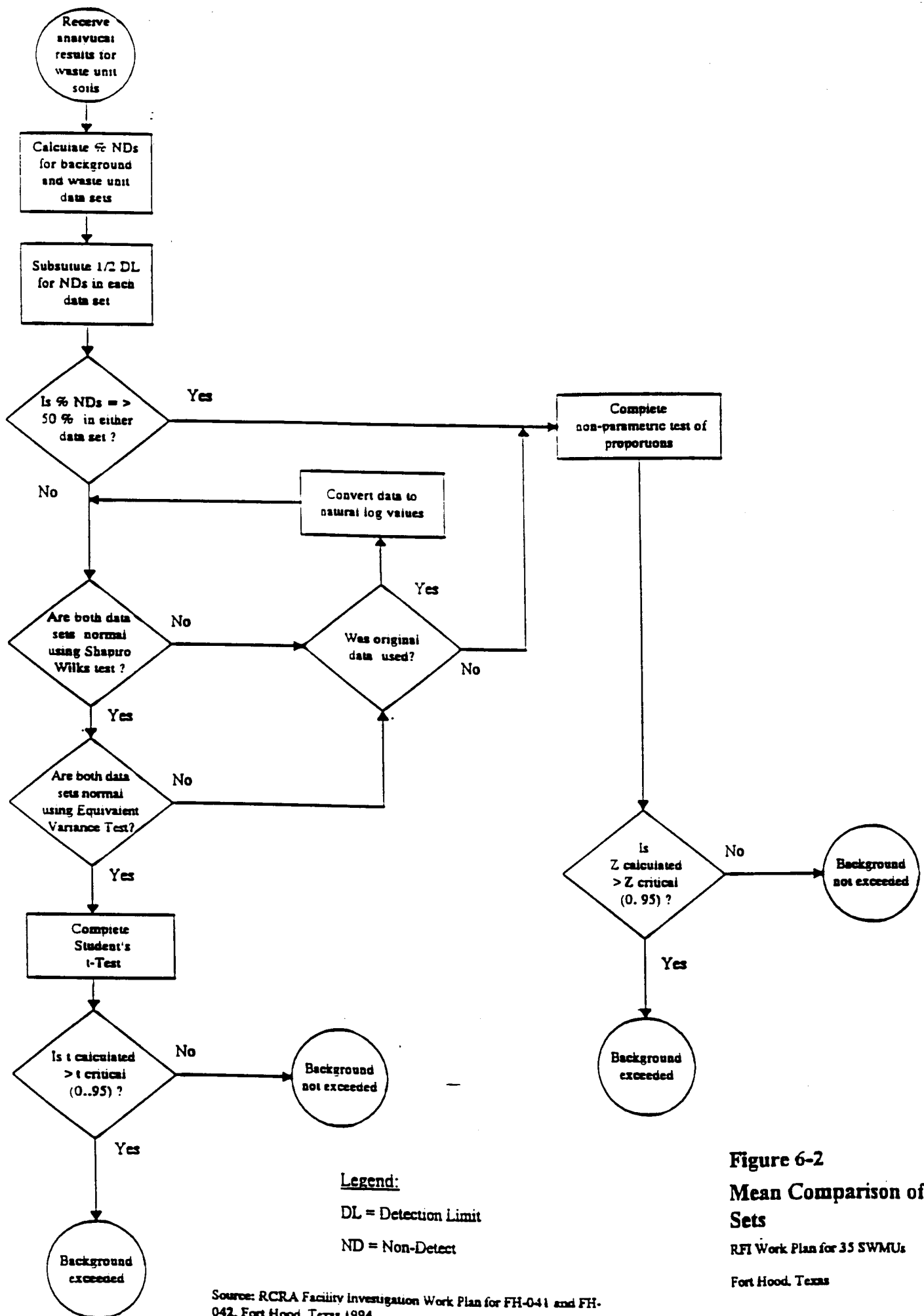


Figure 6-1
95% Upper Tolerance Limit
RFI Work Plan for 35 SW
Fort Hood, Texas



Source: RCRA Facility Investigation Work Plan for FH-041 and FH-042, Fort Hood, Texas 1994.

Figure 6-2
Mean Comparison of Sets
 RFI Work Plan for 35 SWMUs
 Fort Hood, Texas

95% UTLs

Soil Background 95% UTLs NO DUPLICATES						
smp_id	Mercury		Arsenic	Barium		
	Result (x)	Qual	Result (x)	Result	Qual	Ln(x)
BKSB101	0.04	U	3	21.3	J	3.05870707
BKSB102	0.04	U	2	8	J	2.07944154
BKSB103	0.04	U	9.1	14.7	J	2.68784749
BKSB105	0.04	U	4.3	23.4	J	3.15273602
BKSB106	0.04	U	4.4	43.7	J	3.7773481
BKSB107	0.04	U				
BKSB109	0.04	U	3.5	155	J	5.04342512
BKSB110	0.04	U	4.8	24.1	J	3.18221184
BKSB111	0.04	U	5.2	7.2	J	1.97408103
BKSB113	0.04	U	5.7	20.5	J	3.02042489
BKSB114	0.04	U	5.2	25.2	J	3.22684399
BKSB115	0.04	U	5.3	10.6	J	2.360854
BKSB116	0.04	U	11.6	4.9	J	1.58923521
BKSB118	0.04	U	2.6	4.4	J	1.48160454
BKSB119	0.04	U	0.66	3		1.09861229
BKSB120	0.04	U	0.44	2		0.69314718
BKSB122	0.04	U	3.2	6.1		1.80828877
BKSB123	0.04	U	3.8	5.5		1.70474809
BKSB125	0.04	U	3.2	18.1		2.89591194
BKSB126	0.04	U	2.5	5.4		1.68639895
BKSB128	0.04		3.6	36.3		3.59181774
BKSB129	0.04	U	2.6	26.3		3.26956894
BKSB130	0.04	U	1	8.1		2.09186406
BKSB131	0.04	U	5.3	65.9		4.18813844
BKSB132	0.04	U	4.2	41.7		3.73050113
BKSB133	0.04	U	3.2	68.6		4.22829253
BKSB134	0.04	U	2.9	20.1		3.00071982
BKSB136	0.04	U	4.3	14.8	J	2.69462718
BKSB137	0.04	U	8.2	7.8	J	2.05412373
BKSB138	0.04	U	9.2	12.2	J	2.50143595
BKSB139	0.04	U	7.6	7.3	J	1.98787435
BKSB141	0.04	U	5.6	127	J	4.84418709
BKSB142	0.04	U	3.8	63	J	4.14313473
BKSB143	0.04	U	3.8	39.3	J	3.67122452
BKSB144	0.04	U	3.7	36.1	J	3.58629287
BKSB104	0.04	U	6.2	28.2	J	3.33932198
BKSB108	0.04	U	6	72.4	J	4.2822063
BKSB112	0.04	U	1.6	6.6	J	1.88706965
BKSB117	0.04	U	4.4	27.9	J	3.32862669
BKSB121	0.04	U	4.1	24		3.17805383
BKSB124	0.04	U	6	19.3		2.9601051
BKSB127	0.04	U	1.9	18.8		2.93385687
BKSB135	0.04	U	2.7	15.4	J	2.73436751
BKSB140	0.04	U	4.8	108	J	4.68213123
%nondetects=	0.04	0.95744681			0	
Distribution	D		N			L
Mean	0.04		4.35348837	30.1906977		2.91700954
std dev	0		2.29920368	33.4734423		1.01859487
n	44		43	43		43
K	2.097		2.102	2.102		2.102
UTL	0.04		9.1864145	100.55187		5.058096
UTL(ln)=exp(mean + K(std d						157.29074

95% UTLs

Soil Background							
smp_id	Cadmium				Chromium		
	Result (x)	Qual	1/2 nondetects	Ln(x)	Result (x)	Qual	Ln(x)
BKSB101	0.12		0.12	-2.1202635	5.1	J	1.62924054
BKSB102	0.05		0.05	-2.9957323	10.3	J	2.3321439
BKSB103	0.05	U	0.025	-3.6888795	10.1	J	2.31253542
BKSB105	0.11		0.11	-2.2072749	4	J	1.38629436
BKSB106	0.16		0.16	-1.8325815	7.6	J	2.02814825
BKSB107	0.35		0.35	-1.0498221	5.1	J	1.62924054
BKSB109	0.07		0.07	-2.65926	6.5	J	1.87180218
BKSB110	0.06		0.06	-2.8134107	16.6	J	2.8094027
BKSB111	0.05		0.05	-2.9957323	6.2	J	1.82454929
BKSB113	0.07		0.07	-2.65926	8.9	J	2.18605128
BKSB114	0.05	U	0.025	-3.6888795	20.3	J	3.01062089
BKSB115	0.06		0.06	-2.8134107	7.3	J	1.98787435
BKSB116	0.2		0.2	-1.6094379	2.7	J	0.99325177
BKSB118	0.19		0.19	-1.6607312	2.2	J	0.78845736
BKSB119	0.06		0.06	-2.8134107	2.1		0.74193734
BKSB120	0.04	U	0.02	-3.912023	0.93		-0.0725707
BKSB122	0.06		0.06	-2.8134107	4.9		1.58923521
BKSB123	0.08		0.08	-2.5257286	4.3		1.45861502
BKSB125	0.11		0.11	-2.2072749	5.1		1.62924054
BKSB126	0.06		0.06	-2.8134107	5.5		1.70474809
BKSB128	0.05	U	0.025	-3.6888795	8.5		2.14006616
BKSB129	0.04	U	0.02	-3.912023	4.6		1.5260563
BKSB130	0.07		0.07	-2.65926	1.8		0.58778666
BKSB131	0.15		0.15	-1.89712	7.7		2.04122033
BKSB132	0.04	U	0.02	-3.912023	5.9		1.77495235
BKSB133	0.11		0.11	-2.2072749	4.9		1.58923521
BKSB134	0.08		0.08	-2.5257286	1.2		0.18232156
BKSB136	0.2	J	0.2	-1.6094379	8.3		2.11625551
BKSB137	0.18	J	0.18	-1.7147984	8.1		2.09186406
BKSB138	0.21	J	0.21	-1.5606477	11.1		2.40694511
BKSB139	0.2	J	0.2	-1.6094379	8.4		2.12823171
BKSB141	0.45	J	0.45	-0.7985077	23.6		3.16124671
BKSB142	0.29	J	0.29	-1.2378744	8.4		2.12823171
BKSB143	0.27	J	0.27	-1.3093333	12.2		2.50143595
BKSB144	0.2	J	0.2	-1.6094379	6.5		1.87180218
BKSB104	0.15		0.15	-1.89712	3.1	J	1.13140211
BKSB108	0.2		0.2	-1.6094379	12.9	J	2.55722731
BKSB112	0.04	U	0.02	-3.912023	4	J	1.38629436
BKSB117	0.18		0.18	-1.7147984	5.7	J	1.74046617
BKSB121	0.18		0.18	-1.7147984	6.3		1.84054963
BKSB124	0.11		0.11	-2.2072749	7.2		1.97408103
BKSB127	0.04	U	0.02	-3.912023	3.7		1.30833282
BKSB135	0.17	J	0.17	-1.7719568	6.1		1.80828877
BKSB140	0.79	J	0.79	-0.2357223	16.1		2.77881927
%nondetects=		0.19148936				0	
Distribution				L			L
Mean	0.14545455			-2.343338	7.31886364		1.78668026
std dev	0.13475999			0.92656476	4.7817999		0.68062712
n	44			44	44		44
K	2.097			2.097	2.097		2.097
UTL	0.4280462			-0.400332	17.346298		3.2139553
UTL(ln)=exp(me				0.6700977			24.87729

95% UTLs

Soil Background							
smp_id	Lead			Selenium		Silver	
	Result (x)	Qual	Ln(x)	Result (x)	Qual	Result (x)	Qual
BKSB101	6	J	1.79175947	0.37	U	0.24	U
BKSB102	5	J	1.60943791	0.36	U	0.23	U
BKSB103	9.5	J	2.2512918	0.38	U	0.24	U
BKSB105	3.9	J	1.36097655	0.33	U	0.21	U
BKSB106	5	J	1.60943791	0.33	U	0.21	U
BKSB107	6.1	J	1.80828877	0.36	U	0.23	U
BKSB109	3.2	J	1.16315081	0.34	U	0.22	U
BKSB110	7.8	J	2.05412373	0.36	U	0.23	U
BKSB111	5.3	J	1.66770682	0.35	U	0.22	U
BKSB113	6	J	1.79175947	0.36	U	0.23	U
BKSB114	7.7	J	2.04122033	0.38	U	0.24	U
BKSB115	5.1	J	1.62924054	0.32	U	0.2	U
BKSB116	5.6	J	1.7227666	0.33	U	0.21	U
BKSB118	3.7	J	1.30833282	0.34	U	0.21	U
BKSB119	1.3	J	0.26236426	0.33	U	0.21	U
BKSB120	0.72	J	-0.3285041	0.32	U	0.2	U
BKSB122	4.1	J	1.41098697	0.33	U	0.21	U
BKSB123	3.8	J	1.33500107	0.33	U	0.21	U
BKSB125	1.7	J	0.53062825	0.36		0.2	U
BKSB126	1.5	J	0.40546511	0.44		0.21	U
BKSB128	7.5	J	2.01490302	0.35	U	0.22	U
BKSB129	4.1	J	1.41098697	0.33	U	0.21	U
BKSB130	3.1	J	1.13140211	0.32	U	0.2	U
BKSB131	10.1	J	2.31253542	0.34	U	0.22	U
BKSB132	7.8	J	2.05412373	0.34	U	0.21	U
BKSB133	6.3	J	1.84054963	0.35	U	0.22	U
BKSB134	2.3	J	0.83290912	0.33	U	0.21	U
BKSB136	3	J	1.09861229	0.32	R	0.22	U
BKSB137	2.3	J	0.83290912	0.31	R	0.21	U
BKSB138	4.1	J	1.41098697	0.32	R	0.22	U
BKSB139	3.6	J	1.28093385	0.31	R	0.21	U
BKSB141	12.1	J	2.49320545	1.8	R	0.25	U
BKSB142	5	J	1.60943791	1.9	R	0.25	U
BKSB143	6.6	J	1.88706965	0.35	R	0.24	U
BKSB144	4	J	1.38629436	0.31	R	0.21	U
BKSB104	5.3	J	1.66770682	0.32	U	0.2	U
BKSB108	9.8	J	2.28238239	0.37	U	0.23	U
BKSB112	1.5	J	0.40546511	0.32	U	0.2	U
BKSB117	8.3	J	2.11625551	0.33	U	0.21	U
BKSB121	10.2	J	2.32238772	0.34	U	0.22	U
BKSB124	4.5	J	1.5040774	0.34	U	0.21	U
BKSB127	3.8	J	1.33500107	0.33	U	0.21	U
BKSB135	2.5	J	0.91629073	1.5	R	0.21	U
BKSB140	33.2	J	3.50254988	0.35	R	0.24	U
%nondetects=		0					
Distribution			L	D		D	
Mean	5.77318182		1.52441844	— 0.345		0.21795455	
std dev	4.99838289		0.67810106	0.02427744		0.01390659	
n	44		44				
K	2.097		2.097				
UTL	16.254791		2.9463964				
UTL(ln)=exp(me			19.037227				

Shapiro Wilk for Barium

	Bkgd Conc (\bar{x}_i) (mg/kg)	Ordered Conc. $x(i)$	Reverse Ordered $x(n-i+1)$	Difference $x(n-i+1)-x(i)$	$a(n-i+1)$	$b(i)$
BKSB101	21.3	2	155	153	0.3894	59.5782
BKSB102	8	3	127	124	0.2684	33.2816
BKSB103	14.7	4.4	108	103.6	0.2334	24.18024
BKSB105	23.4	4.9	72.4	67.5	0.2078	14.0265
BKSB106	43.7	5.4	68.6	63.2	0.1871	11.82472
BKSB107		5.5	65.9	60.4	0.1695	10.2378
BKSB109	155	6.1	63	56.9	0.1539	8.75691
BKSB110	24.1	6.6	43.7	37.1	0.1398	5.18658
BKSB111	7.2	7.2	41.7	34.5	0.1269	4.37805
BKSB113	20.5	7.3	39.3	32	0.1149	3.6768
BKSB114	25.2	7.8	36.3	28.5	0.1035	2.94975
BKSB115	10.6	8	36.1	28.1	0.0927	2.60487
BKSB116	4.9	8.1	28.2	20.1	0.0824	1.65624
BKSB118	4.4	10.6	27.9	17.3	0.0724	1.25252
BKSB119	3	12.2	26.3	14.1	0.0628	0.88548
BKSB120	2	14.7	25.2	10.5	0.0534	0.5607
BKSB122	6.1	14.8	24.1	9.3	0.0442	0.41106
BKSB123	5.5	15.4	24	8.6	0.0352	0.30272
BKSB125	18.1	18.1	23.4	5.3	0.0263	0.13939
BKSB126	5.4	18.8	21.3	2.5	0.0175	0.04375
BKSB128	36.3	19.3	20.5	1.2	0.0087	0.01044
BKSB129	26.3	20.1	20.1	0	0	0
BKSB130	8.1	20.5	19.3	-1.2		0
BKSB131	65.9	21.3	18.8	-2.5		0
BKSB132	41.7	23.4	18.1	-5.3		
BKSB133	68.6	24	15.4	-8.6	sum Bi=	185.94432
BKSB134	20.1	24.1	14.8	-9.3		
BKSB136	14.8	25.2	14.7	-10.5	W(0.05,43)	0.943
BKSB137	7.8	26.3	12.2	-14.1	W=	0.73470973
BKSB138	12.2	27.9	10.6	-17.3		
BKSB139	7.3	28.2	8.1	-20.1		
BKSB141	127	36.1	8	-28.1		
BKSB142	63	36.3	7.8	-28.5		
BKSB143	39.3	39.3	7.3	-32		
BKSB144	36.1	41.7	7.2	-34.5		
BKSB104	28.2	43.7	6.6	-37.1		
BKSB108	72.4	63	6.1	-56.9		
BKSB112	6.6	65.9	5.5	-60.4		
BKSB117	27.9	68.6	5.4	-63.2		
BKSB121	24	72.4	4.9	-67.5		
BKSB124	19.3	108	4.4	-103.6		
BKSB127	18.8	127	3	-124		
BKSB135	15.4	155	2	-153		
BKSB140	108			0		
Sum of \bar{x}_i	1298.2					
Mean	30.19069767					
n=	43					
sum of \bar{x}_i^2	86253.36					
1/n=	0.023255814					
$\bar{x}_i=(\text{sum } \bar{x}_i)^2$	1685323.24					
d=	47059.79628					
W=	0.734709728					
W(0.05,43)=	0.943					
W<W(0.5,43), distribution is not Normal						

Shapiro Wilk for Barium

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	0.693147181	0.48045301	5.043425117	4.35027794	0.3894	1.693998228
	1.098612289	1.20694896	4.844187086	3.7455748	0.2684	1.005312276
	1.481604541	2.19515202	4.682131227	3.20052669	0.2334	0.747002929
	1.589235205	2.52566854	4.282206299	2.69297109	0.2078	0.559599393
	1.686398954	2.84394143	4.228292535	2.54189358	0.1871	0.475588289
	1.704748092	2.90616606	4.188138442	2.48339035	0.1695	0.420934664
	1.808288771	3.26990828	4.143134726	2.33484596	0.1539	0.359332793
	1.887069649	3.56103186	3.777348102	1.89027845	0.1398	0.264260928
	1.974081026	3.8969959	3.730501129	1.7564201	0.1269	0.222889711
	1.987874348	3.95164442	3.671224519	1.68335017	0.1149	0.193416935
	2.054123734	4.21942431	3.591817741	1.53769401	0.1035	0.15915133
	2.079441542	4.32407713	3.586292865	1.50685132	0.0927	0.139685118
	2.091864062	4.37589525	3.339321978	1.24745792	0.0824	0.102790532
	2.360854001	5.57363161	3.328626689	0.96777269	0.0724	0.070066743
	2.501435952	6.25718182	3.269568939	0.76813299	0.0628	0.048238752
	2.687847494	7.22452415	3.226843995	0.5389965	0.0534	0.028782413
	2.694627181	7.26101564	3.18221184	0.48758466	0.0442	0.021551242
	2.734367509	7.47676568	3.17805383	0.44368632	0.0352	0.015617758
	2.895911938	8.38630595	3.152736022	0.25682408	0.0263	0.006754473
	2.93385687	8.60751613	3.058707073	0.1248502	0.0175	0.002184879
	2.960105096	8.76222218	3.020424886	0.06031979	0.0087	0.000524782
	3.000719815	9.00431941	3.000719815	0		0
	3.020424886	9.12296649	2.960105096	-0.0603198		0
	3.058707073	9.35568896	2.93385687	-0.1248502		0
	3.152736022	9.93974443	2.895911938	-0.2568241		
	3.17805383	10.1000261	2.734367509	-0.4436863		6.537684167
	3.18221184	10.1264722	2.694627181	-0.4875847		
	3.226843995	10.4125222	2.687847494	-0.5389965	W(0.05,43)	0.943
	3.269568939	10.690081	2.501435952	-0.768133	W(ln)=	0.98083423
	3.328626689	11.0797556	2.360854001	-0.9677727		
	3.339321978	11.1510713	2.091864062	-1.2474579		
	3.586292865	12.8614965	2.079441542	-1.5068513		
	3.591817741	12.9011547	2.054123734	-1.537694		
	3.671224519	13.4778895	1.987874348	-1.6833502		
	3.730501129	13.9166387	1.974081026	-1.7564201		
	3.777348102	14.2683587	1.887069649	-1.8902785		
	4.143134726	17.1655654	1.808288771	-2.334846		
	4.188138442	17.5405036	1.704748092	-2.4833903		
	4.228292535	17.8784578	1.686398954	-2.5418936		
	4.282206299	18.3372908	1.589235205	-2.6929711		
	4.682131227	21.9223528	1.481604541	-3.2005267		
	4.844187086	23.4661485	1.098612289	-3.7455748		
	5.043425117	25.4361369	0.693147181	-4.3502779		
Sum of xi	125.4314103		125.4314103			
Mean	2.917009542					
n=	43					
sum of xi^2	409.4611119					
1/n=	0.023255814					
xi=(sum xi)^	15733.03869					
d=	43.57649126					
W(ln)=	0.98083423					
W(0.05,43)	0.943					
W>W(0.5,43), distribution is lognormal						

Shapiro Wilk for Cadmium

smp_id	Cadmium	(xi) ²	Ordered Conc. x(i)	Reverse Ordered x(n- i+1)	Difference x(n- i+1)-x(i)	a(n-i+1)	b(i)	smp_id
BKSB101	0.12	0.0144	0.02	0.79	0.77	0.3872	0.298144	BKSB101
BKSB102	0.05	0.0025	0.02	0.45	0.43	0.2667	0.114681	BKSB102
BKSB103	0.025	0.00063	0.02	0.35	0.33	0.2323	0.076659	BKSB103
BKSB104	0.15	0.0225	0.02	0.29	0.27	0.2072	0.055944	BKSB104
BKSB105	0.11	0.0121	0.02	0.27	0.25	0.1868	0.0467	BKSB105
BKSB106	0.16	0.0256	0.025	0.21	0.185	0.1695	0.031358	BKSB106
BKSB107	0.35	0.1225	0.025	0.2	0.175	0.1542	0.026985	BKSB107
BKSB108	0.2	0.04	0.025	0.2	0.175	0.1405	0.024588	BKSB108
BKSB109	0.07	0.0049	0.05	0.2	0.15	0.1278	0.01917	BKSB109
BKSB110	0.06	0.0036	0.05	0.2	0.15	0.116	0.0174	BKSB110
BKSB111	0.05	0.0025	0.06	0.2	0.14	0.1049	0.014686	BKSB111
BKSB112	0.02	0.0004	0.06	0.19	0.13	0.0943	0.012259	BKSB112
BKSB113	0.07	0.0049	0.06	0.18	0.12	0.0842	0.010104	BKSB113
BKSB114	0.025	0.00063	0.06	0.18	0.12	0.0745	0.00894	BKSB114
BKSB115	0.06	0.0036	0.06	0.18	0.12	0.0651	0.007812	BKSB115
BKSB116	0.2	0.04	0.07	0.17	0.1	0.056	0.0056	BKSB116
BKSB117	0.18	0.0324	0.07	0.16	0.09	0.0471	0.004239	BKSB117
BKSB118	0.19	0.0361	0.07	0.15	0.08	0.0383	0.003064	BKSB118
BKSB119	0.06	0.0036	0.08	0.15	0.07	0.0296	0.002072	BKSB119
BKSB120	0.02	0.0004	0.08	0.12	0.04	0.0211	0.000844	BKSB120
BKSB121	0.18	0.0324	0.11	0.11	0	0.0126	0	BKSB121
BKSB122	0.06	0.0036	0.11	0.11	0	0.0042	0	BKSB122
BKSB123	0.08	0.0064	0.11	0.11	0	0	0	BKSB123
BKSB124	0.11	0.0121	0.11	0.11	0		0	BKSB124
BKSB125	0.11	0.0121	0.12	0.08	-0.04			BKSB125
BKSB126	0.06	0.0036	0.15	0.08	-0.07	Sum of b=	0.781248	BKSB126
BKSB127	0.02	0.0004	0.15	0.07	-0.08			BKSB127
BKSB128	0.025	0.00063	0.16	0.07	-0.09	W=	0.744801	BKSB128
BKSB129	0.02	0.0004	0.17	0.07	-0.1	W(0.05,44)	0.944	BKSB129
BKSB130	0.07	0.0049	0.18	0.06	-0.12			BKSB130
BKSB131	0.15	0.0225	0.18	0.06	-0.12			BKSB131
BKSB132	0.02	0.0004	0.18	0.06	-0.12			BKSB132
BKSB133	0.11	0.0121	0.19	0.06	-0.13			BKSB133
BKSB134	0.08	0.0064	0.2	0.06	-0.14			BKSB134
BKSB135	0.17	0.0289	0.2	0.05	-0.15			BKSB135
BKSB136	0.2	0.04	0.2	0.05	-0.15			BKSB136
BKSB137	0.18	0.00063	0.2	0.025	-0.175			BKSB137
BKSB138	0.21	0.0225	0.2	0.025	-0.175			BKSB138
BKSB139	0.2	0.0121	0.21	0.025	-0.185			BKSB139
BKSB140	0.79	0.0256	0.27	0.02	-0.25			BKSB140
BKSB141	0.45	0.1225	0.29	0.02	-0.27			BKSB141
BKSB142	0.29	0.04	0.35	0.02	-0.33			BKSB142
BKSB143	0.27	0.0049	0.45	0.02	-0.43			BKSB143
BKSB144	0.2	0.0036	0.79	0.02	-0.77			BKSB144
Sum of xi	6.225							Sum of xi
Mean	0.14147727							Mean
n=	44							n=
sum of xi ²	1.700175							sum of xi ²
1/n=	0.02272727							1/n=
xi=(sum xi) ²	38.750625							xi=(sum xi) ²
d=	0.81947898							d=
W=	0.7448006							W=
W(0.05,44)=	0.944							W(0.05,44)=
W<W(0.5,44), the distribution is not normal								W<W(0.5,44),

Shapiro Wilk for Cadmium

ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n- i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
-3.912023005	15.303924	-0.2357223	3.67630067	0.3872	1.42346362
-3.912023005	15.303924	-0.7985077	3.11351531	0.2667	0.83037453
-3.912023005	15.303924	-1.0498221	2.86220088	0.2323	0.66488926
-3.912023005	15.303924	-1.2378744	2.67414865	0.2072	0.5540836
-3.912023005	15.303924	-1.3093333	2.60268969	0.1868	0.48618243
-3.688879454	13.607832	-1.5606477	2.12823171	0.1695	0.36073527
-3.688879454	13.607832	-1.6094379	2.07944154	0.1542	0.32064989
-3.688879454	13.607832	-1.6094379	2.07944154	0.1405	0.29216154
-2.995732274	8.9744119	-1.6094379	1.38629436	0.1278	0.17716842
-2.995732274	8.9744119	-1.6094379	1.38629436	0.116	0.16081015
-2.813410717	7.9152799	-1.6094379	1.2039728	0.1049	0.12629675
-2.813410717	7.9152799	-1.6607312	1.15267951	0.0943	0.10869768
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0842	0.09250315
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0745	0.08184662
-2.813410717	7.9152799	-1.7147984	1.09861229	0.0651	0.07151966
-2.659260037	7.0716639	-1.7719568	0.8873032	0.056	0.04968898
-2.659260037	7.0716639	-1.8325815	0.82667857	0.0471	0.03893656
-2.659260037	7.0716639	-1.89712	0.76214005	0.0383	0.02918996
-2.525728644	6.3793052	-1.89712	0.62860866	0.0296	0.01860682
-2.525728644	6.3793052	-2.1202635	0.40546511	0.0211	0.00855531
-2.207274913	4.8720625	-2.2072749	0	0.0126	0
-2.207274913	4.8720625	-2.2072749	0	0.0042	0
-2.207274913	4.8720625	-2.2072749	0	0	0
-2.207274913	4.8720625	-2.2072749	0		0
-2.120263536	4.4955175	-2.5257286	-0.40546511		
-1.897119985	3.5990642	-2.5257286	-0.62860866	Sum of b=	5.8963602
-1.897119985	3.5990642	-2.65926	-0.76214005		
-1.832581464	3.3583548	-2.65926	-0.82667857	W=	0.94177684
-1.771956842	3.139831	-2.65926	-0.8873032	W(0.05,44)	0.944
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.714798428	2.9405336	-2.8134107	-1.09861229		
-1.660731207	2.7580281	-2.8134107	-1.15267951		
-1.609437912	2.5902904	-2.8134107	-1.2039728		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-2.9957323	-1.38629436		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.609437912	2.5902904	-3.6888795	-2.07944154		
-1.560647748	2.4356214	-3.6888795	-2.12823171		
-1.30933332	1.7143537	-3.912023	-2.60268969		
-1.237874356	1.5323329	-3.912023	-2.67414865		
-1.049822124	1.1021265	-3.912023	-2.86220088		
-0.798507696	0.6376145	-3.912023	-3.11351531		
-0.235722334	0.055565	-3.912023	-3.67630067		
-103.106874					
-2.343338046					
44					
278.5307172					
0.022727273					
10631.02747					
36.91645655					
0.941776836					
0.944					
The distribution is approximately lognormal					

Shapiro Wilk Chromium

smp_id	Chromium	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n- i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	5.1	0.93	23.6	22.67	0.3872	8.777824
BKSB102	10.3	1.2	20.3	19.1	0.2667	5.09397
BKSB103	10.1	1.8	16.6	14.8	0.2323	3.43804
BKSB104	3.1	2.1	16.1	14	0.2072	2.9008
BKSB105	4	2.2	12.9	10.7	0.1868	1.99876
BKSB106	7.6	2.7	12.2	9.5	0.1695	1.61025
BKSB107	5.1	3.1	11.1	8	0.1542	1.2336
BKSB108	12.9	3.7	10.3	6.6	0.1405	0.9273
BKSB109	6.5	4	10.1	6.1	0.1278	0.77958
BKSB110	16.6	4	8.9	4.9	0.116	0.5684
BKSB111	6.2	4.3	8.5	4.2	0.1049	0.44058
BKSB112	4	4.6	8.4	3.8	0.0943	0.35834
BKSB113	8.9	4.9	8.4	3.5	0.0842	0.2947
BKSB114	20.3	4.9	8.30	3.4	0.0745	0.2533
BKSB115	7.3	5.1	8.1	3	0.0651	0.1953
BKSB116	2.7	5.1	7.7	2.6	0.056	0.1456
BKSB117	5.7	5.1	7.6	2.5	0.0471	0.11775
BKSB118	2.2	5.5	7.3	1.8	0.0383	0.06894
BKSB119	2.1	5.7	7.2	1.5	0.0296	0.0444
BKSB120	0.93	5.9	6.5	0.6	0.0211	0.01266
BKSB121	6.3	6.1	6.5	0.4	0.0126	0.00504
BKSB122	4.9	6.2	6.3	0.1	0.0042	0.00042
BKSB123	4.3	6.3	6.2	-0.1	0	0
BKSB124	7.2	6.5	6.1	-0.4	0.0037	-0.00148
BKSB125	5.1	6.5	5.9	-0.6	Sum of b=	29.264074
BKSB126	5.5	7.2	5.7	-1.5		
BKSB127	3.7	7.3	5.5	-1.8	W=	0.87100033
BKSB128	8.5	7.6	5.1	-2.5	W(0.05,45)	0.945
BKSB129	4.6	7.7	5.1	-2.6		
BKSB130	1.8	8.1	5.1	-3		
BKSB131	7.7	8.30	4.9	-3.4		
BKSB132	5.9	8.4	4.9	-3.5		
BKSB133	4.9	8.4	4.6	-3.8		
BKSB134	1.2	8.5	4.3	-4.2		
BKSB135	6.1	8.9	4	-4.9		
BKSB136	8.30	10.1	4	-6.1		
BKSB137	8.1	10.3	3.7	-6.6		
BKSB138	11.1	11.1	3.1	-8		
BKSB139	8.4	12.2	2.7	-9.5		
BKSB140	16.1	12.9	2.2	-10.7		
BKSB141	23.6	16.1	2.1	-14		
BKSB142	8.4	16.6	1.8	-14.8		
BKSB143	12.2	20.3	1.2	-19.1		
BKSB144	6.5	23.6	0.93	-22.67		
Sum of x _i	322.03					
Mean	7.31886364					
n=	44					
sum of x _i ²	3340.1149					
1/n=	0.02272727					
x _i =(sum x _i) ²	103703.321					
d=	983.221243					
W=	0.87100033					
W(0.05,44)=	0.944					
W<W(0.5,45), the distribution is not normal						

Shapiro Wilk Chromium

smpl_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.07257069	0.00526651	3.161246712	3.2338174	0.3872	1.2521341
BKSB102	0.182321557	0.03324115	3.010620886	2.82829933	0.2667	0.75430743
BKSB103	0.587786665	0.34549316	2.809402695	2.22161603	0.2323	0.5160814
BKSB104	0.741937345	0.55047102	2.778819272	2.03688193	0.2072	0.42204194
BKSB105	0.78845736	0.62166501	2.557227311	1.76876995	0.1868	0.33040623
BKSB106	0.993251773	0.98654908	2.501435952	1.50818418	0.1695	0.25563722
BKSB107	1.131402111	1.28007074	2.406945108	1.275543	0.1542	0.19668873
BKSB108	1.30833282	1.71173477	2.332143895	1.02381108	0.1405	0.14384546
BKSB109	1.386294361	1.92181206	2.312535424	0.92624106	0.1278	0.11837361
BKSB110	1.386294361	1.92181206	2.186051277	0.79975692	0.116	0.0927718
BKSB111	1.458615023	2.12755778	2.140066163	0.68145114	0.1049	0.07148422
BKSB112	1.526056303	2.32884784	2.128231706	0.6021754	0.0943	0.05678514
BKSB113	1.589235205	2.52566854	2.128231706	0.5389965	0.0842	0.04538351
BKSB114	1.589235205	2.52566854	2.116255515	0.52702031	0.0745	0.03926301
BKSB115	1.62924054	2.65442474	2.091864062	0.46262352	0.0651	0.03011679
BKSB116	1.62924054	2.65442474	2.041220329	0.41197979	0.056	0.02307087
BKSB117	1.62924054	2.65442474	2.028148247	0.39890771	0.0471	0.01878855
BKSB118	1.704748092	2.90616606	1.987874348	0.28312626	0.0383	0.01084374
BKSB119	1.740466175	3.02922251	1.974081026	0.23361485	0.0296	0.006915
BKSB120	1.774952351	3.15045585	1.871802177	0.09684983	0.0211	0.00204353
BKSB121	1.808288771	3.26990828	1.871802177	0.06351341	0.0126	0.00080027
BKSB122	1.824549292	3.32898012	1.840549633	0.01600034	0.0042	6.7201E-05
BKSB123	1.840549633	3.38762295	1.824549292	-0.0160003	0	0
BKSB124	1.871802177	3.50364339	1.808288771	-0.0635134		0
BKSB125	1.871802177	3.50364339	1.774952351	-0.0968498	Sum of b=	4.38784974
BKSB126	1.974081026	3.8969959	1.740466175	-0.2336149		
BKSB127	1.987874348	3.95164442	1.704748092	-0.2831263	W=	0.96653268
BKSB128	2.028148247	4.11338531	1.62924054	-0.3989077	W(0.05,45)	0.945
BKSB129	2.041220329	4.16658043	1.62924054	-0.4119798		
BKSB130	2.091864062	4.37589525	1.62924054	-0.4626235		
BKSB131	2.116255515	4.4785374	1.589235205	-0.5270203		
BKSB132	2.128231706	4.52937019	1.589235205	-0.5389965		
BKSB133	2.128231706	4.52937019	1.526056303	-0.6021754		
BKSB134	2.140066163	4.57988318	1.458615023	-0.6814511		
BKSB135	2.186051277	4.77882018	1.386294361	-0.7997569		
BKSB136	2.312535424	5.34782009	1.386294361	-0.9262411		
BKSB137	2.332143895	5.79338475	1.30833282	-1.0238111		
BKSB138	2.406945108	6.25718182	1.131402111	-1.275543		
BKSB139	2.501435952	6.53941152	0.993251773	-1.5081842		
BKSB140	2.557227311	7.72183655	0.78845736	-1.76877		
BKSB141	2.778819272	7.8927435	0.741937345	-2.0368819		
BKSB142	2.809402695	9.06383812	0.587786665	-2.221616		
BKSB143	3.010620886	9.99348077	0.182321557	-2.8282993		
BKSB144	3.161246712	#REF!	-0.072570693	-3.2338174		
Sum of x _i	78.61393132					
Mean	1.786680257					
n=	44					
sum of x _i ²	160.3778498					
1/n=	0.022727273					
x _i =(sum xi) ²	6180.150197					
d=	19.91989073					
W=	0.96653268					
W(0.05,44)	0.944					
W>W(0.5,44), the distribution is lognormal						

Shapiro Wilk for Lead

smpl_id	Lead	Ordered Conc. x(i)	Reverse Ordered x(n-i+1)	Difference x(n i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	6	0.72	33.2	32.48	0.3872	12.57626
BKSB102	5	1.3	12.1	10.8	0.2667	2.88036
BKSB103	9.5	1.5	10.2	8.7	0.2323	2.02101
BKSB104	5.3	1.5	10.1	8.6	0.2072	1.78192
BKSB105	3.9	1.7	9.8	8.1	0.1868	1.51308
BKSB106	5	2.3	9.5	7.2	0.1695	1.2204
BKSB107	6.1	2.3	8.3	6	0.1542	0.9252
BKSB108	9.8	2.5	7.8	5.3	0.1405	0.74465
BKSB109	3.2	3.00	7.8	4.8	0.1278	0.61344
BKSB110	7.8	3.1	7.7	4.6	0.116	0.5336
BKSB111	5.3	3.2	7.5	4.3	0.1049	0.45107
BKSB112	1.5	3.6	6.6	3	0.0943	0.2829
BKSB113	6	3.7	6.3	2.6	0.0842	0.21892
BKSB114	7.7	3.8	6.1	2.3	0.0745	0.17135
BKSB115	5.1	3.8	6	2.2	0.0651	0.14322
BKSB116	5.6	3.9	6	2.1	0.056	0.1176
BKSB117	8.3	4	5.6	1.6	0.0471	0.07536
BKSB118	3.7	4.1	5.3	1.2	0.0383	0.04596
BKSB119	1.3	4.1	5.3	1.2	0.0296	0.03552
BKSB120	0.72	4.1	5.1	1	0.0211	0.0211
BKSB121	10.2	4.5	5	0.5	0.0126	0.0063
BKSB122	4.1	5	5	0	0.0042	0
BKSB123	3.8	5	5	0	0	0
BKSB124	4.5	5	4.5	-0.5		0
BKSB125	1.7	5.1	4.1	-1		
BKSB126	1.5	5.3	4.1	-1.2	Sum of b=	26.37922
BKSB127	3.8	5.3	4.1	-1.2		
BKSB128	7.5	5.6	4	-1.6	W=	0.647733
BKSB129	4.1	6	3.9	-2.1	W(0.05,45)	0.945
BKSB130	3.1	6	3.8	-2.2		
BKSB131	10.1	6.1	3.8	-2.3		
BKSB132	7.8	6.3	3.7	-2.6		
BKSB133	6.3	6.6	3.6	-3		
BKSB134	2.3	7.5	3.2	-4.3		
BKSB135	2.5	7.7	3.1	-4.6		
BKSB136	3.00	7.8	3.00	-4.8		
BKSB137	2.3	7.8	2.5	-5.3		
BKSB138	4.1	8.3	2.3	-6		
BKSB139	3.6	9.5	2.3	-7.2		
BKSB140	33.2	9.8	1.7	-8.1		
BKSB141	12.1	10.1	1.5	-8.6		
BKSB142	5	10.2	1.5	-8.7		
BKSB143	6.6	12.1	1.3	-10.8		
BKSB144	4	33.2	0.72	-32.48		
Sum of xi	254.02					
Mean	5.773182					
n=	44					
sum of xi^2	2540.808					
1/n=	0.022727					
xi=(sum xi)^2	64526.16					
d=	1074.305					
W=	0.647733					
W(0.05,44)=	0.944					
W<W(0.5,44), the distribution is not normal						

Shapiro Wilk for Lead

smpl_id	ln of ordered Conc. x(i)	ln(xi)^2	ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
BKSB101	-0.328504067	0.107914922	3.502549876	3.83105394	0.3872	1.48338409
BKSB102	0.262364264	0.068835007	2.493205453	2.23084119	0.2667	0.59496534
BKSB103	0.405465108	0.164401954	2.32238772	1.91692261	0.2323	0.44530112
BKSB104	0.405465108	0.164401954	2.312535424	1.90707032	0.2072	0.39514497
BKSB105	0.530628251	0.281566341	2.282382386	1.75175413	0.1868	0.32722767
BKSB106	0.832909123	0.693737607	2.251291799	1.41838268	0.1695	0.24041586
BKSB107	0.832909123	0.693737607	2.116255515	1.28334639	0.1542	0.19789201
BKSB108	0.916290732	0.839588705	2.054123734	1.137833	0.1405	0.15986554
BKSB109	1.098612289	1.206948961	2.054123734	0.95551145	0.1278	0.12211436
BKSB110	1.131402111	1.280070738	2.041220329	0.90981822	0.116	0.10553891
BKSB111	1.16315081	1.352919806	2.014903021	0.85175221	0.1049	0.08934881
BKSB112	1.280933845	1.640791516	1.887069649	0.6061358	0.0943	0.05715861
BKSB113	1.30833282	1.711734767	1.840549633	0.53221681	0.0842	0.04481266
BKSB114	1.335001067	1.782227848	1.808288771	0.4732877	0.0745	0.03525993
BKSB115	1.335001067	1.782227848	1.791759469	0.4567584	0.0651	0.02973497
BKSB116	1.360976553	1.852257178	1.791759469	0.43078292	0.056	0.02412384
BKSB117	1.386294361	1.921812056	1.722766598	0.33647224	0.0471	0.01584784
BKSB118	1.410986974	1.99088424	1.667706821	0.25671985	0.0383	0.00983237
BKSB119	1.410986974	1.99088424	1.667706821	0.25671985	0.0296	0.00759891
BKSB120	1.410986974	1.99088424	1.62924054	0.21825357	0.0211	0.00460515
BKSB121	1.504077397	2.262248815	1.609437912	0.10536052	0.0126	0.00132754
BKSB122	1.609437912	2.590290394	1.609437912	0	0.0042	0
BKSB123	1.609437912	2.590290394	1.609437912	0		0
BKSB124	1.609437912	2.590290394	1.504077397	-0.10536052		0
BKSB125	1.62924054	2.654424736	1.410986974	-0.21825357		
BKSB126	1.667706821	2.781246039	1.410986974	-0.25671985	Sum of b=	4.39150052
BKSB127	1.667706821	2.781246039	1.410986974	-0.25671985		
BKSB128	1.722766598	2.96792475	1.386294361	-0.33647224	W(ln)=	0.97536815
BKSB129	1.791759469	3.210401996	1.360976553	-0.43078292		
BKSB130	1.791759469	3.210401996	1.335001067	-0.4567584	W(0.05,44)	0.944
BKSB131	1.808288771	3.26990828	1.335001067	-0.4732877		
BKSB132	1.840549633	3.387622953	1.30833282	-0.53221681		
BKSB133	1.887069649	3.56103186	1.280933845	-0.6061358		
BKSB134	2.014903021	4.059834182	1.16315081	-0.85175221		
BKSB135	2.041220329	4.166580431	1.131402111	-0.90981822		
BKSB136	2.054123734	4.219424313	1.098612289	-0.95551145		
BKSB137	2.054123734	4.219424313	0.916290732	-1.137833		
BKSB138	2.116255515	4.478537404	0.832909123	-1.28334639		
BKSB139	2.251291799	5.068314762	0.832909123	-1.41838268		
BKSB140	2.282382386	5.209269354	0.530628251	-1.75175413		
BKSB141	2.312535424	5.347820087	0.405465108	-1.90707032		
BKSB142	2.32238772	5.393484723	0.405465108	-1.91692261		
BKSB143	2.493205453	6.216073429	0.262364264	-2.23084119		
BKSB144	3.502549876	12.26785563	-0.328504067	-3.83105394		
Sum of xi	67.07441138					
Mean	1.52441844					
n=	44					
sum of xi^2	122.0217748					
1/n=	0.022727273					
xi=(sum xi)^2	4498.976662					
d=	19.77230523					
W(ln)=	0.975368151					
W(0.05,44)=	0.944					
W>W(0.5,44), the distribution is lognormal						

Shapiro Wilk for Arsenic

smp_id	Arsenic				a(n-i+1)	b(i)
BKSB101	3	0.44	11.6	11.16	0.3894	4.345704
BKSB102	2	0.66	9.2	8.54	0.2684	2.292136
BKSB103	9.1	1	9.1	8.1	0.2334	1.89054
BKSB104	6.2	1.6	8.2	6.6	0.2078	1.37148
BKSB105	4.3	1.9	7.6	5.7	0.1871	1.06647
BKSB106	4.4	2	6.2	4.2	0.1695	0.7119
BKSB108	6	2.5	6	3.5	0.1539	0.53865
BKSB109	3.5	2.6	6	3.4	0.1398	0.47532
BKSB110	4.8	2.6	5.7	3.1	0.1269	0.39339
BKSB111	5.2	2.7	5.6	2.9	0.1149	0.33321
BKSB112	1.6	2.9	5.3	2.4	0.1035	0.2484
BKSB113	5.7	3	5.3	2.3	0.0927	0.21321
BKSB114	5.2	3.2	5.2	2	0.0824	0.1648
BKSB115	5.3	3.2	5.2	2	0.0724	0.1448
BKSB116	11.6	3.2	4.8	1.6	0.0628	0.10048
BKSB117	4.4	3.5	4.8	1.3	0.0534	0.06942
BKSB118	2.6	3.6	4.4	0.8	0.0442	0.03536
BKSB119	0.66	3.7	4.4	0.7	0.0352	0.02464
BKSB120	0.44	3.8	4.3	0.5	0.0263	0.01315
BKSB121	4.1	3.8	4.30	0.5	0.0175	0.00875
BKSB122	3.2	3.8	4.2	0.4	0.0087	0.00348
BKSB123	3.8	4.1	4.1	0	0	0
BKSB124	6	4.2	3.8	-0.4		
BKSB125	3.2	4.3	3.8	-0.5		
BKSB126	2.5	4.30	3.8	-0.5	sum Bi=	14.44529
BKSB127	1.9	4.4	3.7	-0.7		
BKSB128	3.6	4.4	3.6	-0.8	W(0.05,43)	0.943
BKSB129	2.6	4.8	3.5	-1.3	W=	0.939827935
BKSB130	1	4.8	3.2	-1.6		
BKSB131	5.3	5.2	3.2	-2		
BKSB132	4.2	5.2	3.2	-2		
BKSB133	3.2	5.3	3	-2.3		
BKSB134	2.9	5.3	2.9	-2.4		
BKSB135	2.7	5.6	2.7	-2.9		
BKSB136	4.30	5.7	2.6	-3.1		
BKSB137	8.2	6	2.6	-3.4		
BKSB138	9.2	6	2.5	-3.5		
BKSB139	7.6	6.2	2	-4.2		
BKSB140	4.8	7.6	1.9	-5.7		
BKSB141	5.6	8.2	1.6	-6.6		
BKSB142	3.8	9.1	1	-8.1		
BKSB143	3.8	9.2	0.66	-8.54		
BKSB144	3.7	11.6	0.44	-11.16		
Sum of xi	187.2					
Mean	4.3534884					
n=	43					
sum of xi^2	1036.9992					
1/n=	0.0232558					
xi=(sum xi)^2	35043.84					
d=	222.02618					
W=	0.9398279					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is approximately normal						

Shapiro Wilk for Arsenic

	ln of ordered Conc. x(i)		ln of Reverse Order x(n-i+1)	Difference x(n-i+1)-x(i)	a(n-i+1)	b(i)
	-0.820980552	0.674009067	2.451005098	3.27198565	0.3894	1.27411121
	-0.415515444	0.172653084	2.219203484	2.63471893	0.2684	0.70715856
	0	0	2.208274414	2.20827441	0.2334	0.51541125
	0.470003629	0.220903412	2.104134154	1.63413053	0.2078	0.33957232
	0.641853886	0.411976411	2.028148247	1.38629436	0.1871	0.25937567
	0.693147181	0.480453014	1.824549292	1.13140211	0.1695	0.19177266
	0.916290732	0.839588705	1.791759469	0.87546874	0.1539	0.13473464
	0.955511445	0.913002122	1.791759469	0.83624802	0.1398	0.11690747
	0.955511445	0.913002122	1.740466175	0.78495473	0.1269	0.09961076
	0.993251773	0.986549085	1.722766598	0.72951482	0.1149	0.08382125
	1.064710737	1.133608953	1.667706821	0.60299608	0.1035	0.06241009
	1.098612289	1.206948961	1.667706821	0.56909453	0.0927	0.05275506
	1.16315081	1.352919806	1.648658626	0.48550782	0.0824	0.04000584
	1.16315081	2.781246039	1.648658626	0.48550782	0.0724	0.03515077
	1.16315081	6.007425991	1.568615918	0.40546511	0.0628	0.02546321
	1.252762968	2.195152016	1.568615918	0.31585295	0.0534	0.01686655
	1.280933845	0.913002122	1.481604541	0.2006707	0.0442	0.00886964
	1.30833282	0.172653084	1.481604541	0.17327172	0.0352	0.00609916
	1.335001067	0.674009067	1.458615023	0.12361396	0.0263	0.00325105
	1.335001067	1.99088424	1.458615023	0.12361396	0.0175	0.00216324
	1.335001067	1.352919806	1.435084525	0.10008346	0.0087	0.00087073
	1.410986974	1.782227848	1.410986974	0		0
	1.435084525	3.210401996	1.335001067	-0.1000835		0
	1.458615023	1.352919806	1.335001067	-0.123614		0
	1.458615023	0.839588705	1.335001067	-0.123614		
	1.481604541	0.411976411	1.30833282	-0.1732717		3.97638115
	1.481604541	1.640791516	1.280933845	-0.2006707		
	1.568615918	0.913002122	1.252762968	-0.3158529	W(0.05,43)	0.943
	1.568615918	0	1.16315081	-0.4054651	W(ln)=	0.91061638
	1.648658626	2.781246039	1.16315081	-0.4855078		
	1.648658626	2.059467595	1.16315081	-0.4855078		
	1.667706821	1.352919806	1.098612289	-0.5690945		
	1.667706821	1.133608953	1.064710737	-0.6029961		
	1.722766598	0.986549085	0.993251773	-0.7295148		
	1.740466175	2.127557784	0.955511445	-0.7849547		
	1.791759469	4.427380539	0.955511445	-0.836248		
	1.791759469	4.924864104	0.916290732	-0.8754687		
	1.824549292	4.113385313	0.693147181	-1.1314021		
	2.028148247	2.460555898	0.641853886	-1.3862944		
	2.104134154	2.96792475	0.470003629	-1.6341305		
	2.208274414	1.782227848	0	-2.2082744		
	2.219203484	1.782227848	-0.415515444	-2.6347189		
	2.451005098	1.711734767	-0.820980552	-3.2719857		
Sum of xi	56.26742214		56.26742214			
Mean	1.308544701					
n=	43					
sum of xi^2	90.99206827					
1/n=	0.023255814					
xi=(sum xi)^2	3166.022794					
d=	17.3636312					
W=	0.910616383					
W(0.05,43)=	0.943					
W<W(0.5,43), the distribution is not lognormal						

Mean Comparison Statistical Results for Arsenic Samples Collected at FH-009

COMPOUND	N	R	U	MEAN	SD	Z
ArsenicA	19	687.00	320.00	408.50	65.49	-1.35
ArsenicB	43	1266.00				

Mean Comparison Statistical Ranking Results for Arsenic Samples Collected at FH-009

COMPOUND	RESULT	RANK	NEWRANK	COMPOUND	RESULT	RANK	NEWRANK
ArsenicB	0.4400	1.0	1.00	ArsenicB	7.6000	55.0	55.0
ArsenicB	0.6600	2.0	2.00	ArsenicB	8.2000	56.0	56.0
ArsenicB	1.0000	3.0	3.00	ArsenicA	8.4000	57.0	57.0
ArsenicB	1.6000	4.0	4.00	ArsenicB	9.1000	58.0	58.0
ArsenicB	1.9000	5.0	5.00	ArsenicB	9.2000	59.0	59.0
ArsenicB	2.0000	6.0	6.00	ArsenicA	11.6000	60.0	60.5
ArsenicA	2.5000	7.0	7.50	ArsenicB	11.6000	61.0	60.5
ArsenicB	2.5000	8.0	7.50	ArsenicA	11.7000	62.0	62.0
ArsenicB	2.6000	9.0	9.50				
ArsenicB	2.6000	10.0	9.50				
ArsenicA	2.7000	11.0	11.5				
ArsenicB	2.7000	12.0	11.5				
ArsenicB	2.9000	13.0	13.0				
ArsenicA	3.0000	14.0	14.5				
ArsenicB	3.0000	15.0	14.5				
ArsenicB	3.2000	16.0	17.0				
ArsenicB	3.2000	17.0	17.0				
ArsenicB	3.2000	18.0	17.0				
ArsenicA	3.5000	19.0	19.5				
ArsenicB	3.5000	20.0	19.5				
ArsenicA	3.6000	21.0	21.5				
ArsenicB	3.6000	22.0	21.5				
ArsenicA	3.7000	23.0	23.5				
ArsenicB	3.7000	24.0	23.5				
ArsenicB	3.8000	25.0	26.0				
ArsenicB	3.8000	26.0	26.0				
ArsenicB	3.8000	27.0	26.0				
ArsenicA	4.0000	28.0	28.0				
ArsenicB	4.1000	29.0	29.0				
ArsenicA	4.2000	30.0	31.0				
ArsenicA	4.2000	31.0	31.0				
ArsenicB	4.2000	32.0	31.0				
ArsenicB	4.3000	33.0	33.5				
ArsenicB	4.3000	34.0	33.5				
ArsenicB	4.4000	35.0	35.5				
ArsenicB	4.4000	36.0	35.5				
ArsenicA	4.5000	37.0	37.0				
ArsenicA	4.7000	38.0	38.0				
ArsenicB	4.8000	39.0	39.5				
ArsenicB	4.8000	40.0	39.5				
ArsenicA	5.1000	41.0	41.0				
ArsenicB	5.2000	42.0	42.5				
ArsenicB	5.2000	43.0	42.5				
ArsenicB	5.3000	44.0	44.5				
ArsenicB	5.3000	45.0	44.5				
ArsenicB	5.6000	46.0	46.0				
ArsenicA	5.7000	47.0	47.5				
ArsenicB	5.7000	48.0	47.5				
ArsenicA	5.9000	49.0	49.0				
ArsenicB	6.0000	50.0	50.5				
ArsenicB	6.0000	51.0	50.5				
ArsenicB	6.2000	52.0	52.0				
ArsenicA	6.8000	53.0	53.5				
ArsenicA	6.8000	54.0	53.5				

APPENDIX F

FH-009 Screening Results

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-009 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
PZ101	09PZ102	--	Barium	0.0446	0.0006	mg/l	30 TAC 335 Groundwater	2.0	mg/l
	09SB116	26.0-26.4	Arsenic	5.1	0.33	mg/kg	Soil Background	9.2	mg/kg
			Barium	7.4	0.06	mg/kg	Soil Background	157.3	mg/kg
			Chromium	9.8	0.07	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.8	0.19	mg/kg	Soil Background	19	mg/kg
PZ102	09SB117	14.0-15.0	Arsenic	11.6	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	29.2	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	19	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	11.1	0.22	mg/kg	Soil Background	19	mg/kg
			Acetone	0.034	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
PZ103	09PZ101	--	Barium	0.113	0.0006	mg/l	30 TAC 335 Groundwater	2.0	mg/l
			Chromium	0.0158	0.0007	mg/l	30 TAC 335 Groundwater	0.1	mg/l
			Lead	0.0079	0.0015	mg/l	30 TAC 335 Groundwater	0.015	mg/l
			Silver	0.0022	0.0014	mg/l	30 TAC 335 Groundwater	0.183	mg/l
	09SB118	14.5-16.0	Arsenic	6.8	0.19	mg/kg	Soil Background	9.2	mg/kg
			Barium	3.8 J	0.14	mg/kg	Soil Background	157.3	mg/kg
			Chromium	3.4 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.8	0.15	mg/kg	Soil Background	19	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-009 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
PZ104	09SB119	14.0-15.0	Arsenic	11.7	0.18	mg/kg	Soil Background	9.2	mg/kg
			Barium	16 J	0.13	mg/kg	Soil Background	157.3	mg/kg
			Chromium	15.2 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	15.4	0.14	mg/kg	Soil Background	19	mg/kg
SB101	09SB101	0.0-1.0	Arsenic	3.6	0.39	mg/kg	Soil Background	9.2	mg/kg
			Barium	9.9	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.14	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	4 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.1 J	0.16	mg/kg	Soil Background	19	mg/kg
	09SB102	14.5-16.0	Arsenic	5.9	0.42	mg/kg	Soil Background	9.2	mg/kg
			Barium	19.6	0.1	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.2	0.05	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.4 J	0.1	mg/kg	Soil Background	24.9	mg/kg
			Lead	6.7 J	0.18	mg/kg	Soil Background	19	mg/kg
	09SB103	24.5-25.5	Arsenic	4.5	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	13.2	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.17	0.04	mg/kg	Soil Background	0.67	mg/kg
			Chromium	5.8 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.9 J	0.16	mg/kg	Soil Background	19	mg/kg
SB102	09SB109	0.0-1.0	Arsenic	2.7	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	36 J	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	5.8 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5	0.22	mg/kg	Soil Background	19	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-009 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB102	09SB110	8.0-9.0	Arsenic	4	0.41	mg/kg	Soil Background	9.2	mg/kg
			Barium	16.2 J	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	9.2 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.9	0.24	mg/kg	Soil Background	19	mg/kg
			Acetone	0.029	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			Methylene Chloride	0.008	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg
	09SB111	15.0-15.5	Arsenic	3.5	0.39	mg/kg	Soil Background	9.2	mg/kg
			Barium	13.8 J	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	5.2 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	5.4	0.23	mg/kg	Soil Background	19	mg/kg
			Acetone	0.012	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
	09SB112	24.0-25.0	Arsenic	5.7	0.33	mg/kg	Soil Background	9.2	mg/kg
			Barium	3.3 J	0.06	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.6 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.8	0.19	mg/kg	Soil Background	19	mg/kg
			Acetone	0.046	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
SB103	09SB106	0.0-1.0	Arsenic	3 J	0.38	mg/kg	Soil Background	9.2	mg/kg
			Barium	50	0.07	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.1	0.06	mg/kg	Soil Background	0.67	mg/kg
			Chromium	11.5 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	6.9 J	0.22	mg/kg	Soil Background	19	mg/kg
			Acetone	0.017	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-009 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB103	09SB107	14.0-15.0	Arsenic	4.2 J	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	11.2	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	6.6 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	7 J	0.21	mg/kg	Soil Background	19	mg/kg
			Acetone	0.011	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
	09SB108	24.0-25.0	Arsenic	4.7 J	0.33	mg/kg	Soil Background	9.2	mg/kg
			Barium	2.6	0.06	mg/kg	Soil Background	157.3	mg/kg
			Chromium	1.9 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	3.3 J	0.19	mg/kg	Soil Background	19	mg/kg
			Acetone	0.036	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
			Methylene Chloride	0.006	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	0.5	mg/kg
SB104	09SB113	0.0-1.0	Arsenic	4.2	0.4	mg/kg	Soil Background	9.2	mg/kg
			Barium	45.7 J	0.08	mg/kg	Soil Background	157.3	mg/kg
			Chromium	11.5 J	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	8.7	0.23	mg/kg	Soil Background	19	mg/kg
			Acetone	0.063	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
	09SB114	15.5-16.0	Arsenic	8.4	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	16.3 J	0.07	mg/kg	Soil Background	157.3	mg/kg
			Chromium	6 J	0.08	mg/kg	Soil Background	24.9	mg/kg
			Lead	11.5	0.22	mg/kg	Soil Background	19	mg/kg
			Acetone	0.024	0.006	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg

Summary of Detected Analytical Results, Detection Limits and Screening Criteria for FH-009 Samples

Location	Sample ID	Depth	Parameter	Result	PQL	Units	Screening Criteria	Screening Value	Units
SB104	09SB115	19.0-20.0	Arsenic	6.8	0.33	mg/kg	Soil Background	9.2	mg/kg
			Barium	3 J	0.06	mg/kg	Soil Background	157.3	mg/kg
			Chromium	2.1 J	0.07	mg/kg	Soil Background	24.9	mg/kg
			Lead	4.7	0.19	mg/kg	Soil Background	19	mg/kg
			Acetone	0.046	0.005	mg/kg	30 TAC 335 Industrial Soil GWP	1020	mg/kg
SB105	09SB104	0.0-1.0	Arsenic	3.7	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	7.8	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.15	0.04	mg/kg	Soil Background	0.67	mg/kg
			Chromium	4.3	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	3.2	0.16	mg/kg	Soil Background	19	mg/kg
	09SB105	10.5-11.0	Arsenic	2.5	0.37	mg/kg	Soil Background	9.2	mg/kg
			Barium	15	0.09	mg/kg	Soil Background	157.3	mg/kg
			Cadmium	0.14	0.04	mg/kg	Soil Background	0.67	mg/kg
			Chromium	3.6	0.09	mg/kg	Soil Background	24.9	mg/kg
			Lead	2.2	0.16	mg/kg	Soil Background	19	mg/kg
	FHGW103	--	Arsenic	0.0014	0.0003	mg/l	30 TAC 335 Groundwater	0.05	mg/l
			Barium	0.0158	0.0025	mg/l	30 TAC 335 Groundwater	2.0	mg/l

APPENDIX G

TNRCC Background Criteria Memo

Texas Natural Resource Conservation Commission

INTEROFFICE MEMORANDUM

To: Program Areas which Utilize the Risk Reduction Rules and Site Specific Risk Analysis

Date: May 19, 1995

From: Dan Pearson
Executive Director

Subject: Arsenic Soil Cleanup Standards

As a result of the TNRCC's experience at the Hi-Yield Superfund Site, it has become apparent there is considerable controversy regarding cleanup standards for arsenic. The TNRCC has Risk Reduction Rules which set a goal for risk due to residual contamination after cleanup (1×10^{-6}). When this goal is translated into a cleanup level for arsenic in soil, the result is .3 to .4 parts per million (ppm). This level of arsenic is below common background levels of arsenic in soil.

In such cases, the Risk Reduction Rules allow an alternate cleanup level of the background concentration. These background levels can be quite low (~ 2.6 ppm) when compared to cleanup levels utilized by other agencies such as EPA and other state environmental agencies.

I have asked the Risk Reduction Implementation Committee to examine this issue and report back to me with a recommendation for an appropriate cleanup level for arsenic after careful examination of the relevant science and literature. I expect that this will take some time.

In the meanwhile, the TNRCC must move forward and address sites contaminated with arsenic.

Therefore, in the interim, I am directing the various program areas that must make decisions in regard to arsenic contamination, to utilize a remediation cleanup level of 20 ppm for arsenic in soils in residential areas, based on soil exposure only. If other considerations, such as potential groundwater contamination, indicate that a lower level may be appropriate, those analyses should be followed rather than this directive. The EPA has used 20 ppm as a removal action level.

Until the Risk Reduction Implementation Committee presents its recommendations this value will serve as an adequately protective concentration in the meantime.


Dan Pearson